

UNCLASSIFIED

AD NUMBER

AD047507

LIMITATION CHANGES

TO:

Approved for public release; distribution is unlimited.

FROM:

Distribution authorized to DoD only;  
Administrative/Operational Use; 13 OCT 1954.  
Other requests shall be referred to Air Force  
Flight Dynamics Lab., Wright-Patterson AFB, OH  
45433.

AUTHORITY

AFFDL ltr, 8 Jul 1968

THIS PAGE IS UNCLASSIFIED

# Armed Services Technical Information Agency

# AD

# 47507

**NOTICE: WHEN GOVERNMENT OR OTHER DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE U. S. GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.**

**Reproduced by  
DOCUMENT SERVICE CENTER  
KNOTT BUILDING, DAYTON, 2, OHIO**

# UNCLASSIFIED



**BOEING AIRPLANE COMPANY**  
**WICHITA 1, KANSAS**

DOCUMENT NO. WD-10387 DATE 13 October 1954  
MODEL RB-47E CONTRACT NO. AF33(600)-5148  
TITLE ACTUAL GROUP WEIGHT & BALANCE REPORT FOR AIRPLANE  
PHOTO-RECONNAISSANCE (AF52-790) 158th.  
ISSUE NO. 4 TO AMC DATE \_\_\_\_\_

SHORT TITLE \_\_\_\_\_  
(For Classified Data)

**SPECIAL LIMITATIONS ON ASTIA DISTRIBUTION**

ASTIA MAY DISTRIBUTE THIS REPORT TO REQUESTING AGENCIES SUBJECT TO THEIR SECURITY AGREEMENT, APPROVED FIELDS OF INTEREST AND THE FOLLOWING:

- ☐ UNLIMITED - TO ALL AGENCIES OF THE DEPARTMENT OF DEFENSE AND THEIR CONTRACTORS.  
☒ LIMITED - TO U.S. MILITARY ORGANIZATIONS ONLY.

THIS REPORT MAY BE DISTRIBUTED TO NONMILITARY AGENCIES NOT APPROVED ABOVE SUBJECT TO BAC APPROVAL OF EACH REQUEST.

NOTE: THE LIMITED CATEGORY MAY BE CHECKED ONLY BECAUSE OF ACTUAL OR POTENTIAL PATENT, PROPRIETARY, ETHICAL, OR SIMILAR IMPLICATIONS.

PREPARED BY

*L. Hile & L. Denny*

SUPERVISED BY

*Harold D. Bolger*

APPROVED BY

*B. F. Leahy*

APPROVED BY \_\_\_\_\_

SECURITY CLASSIFICATION AND  
DISTRIBUTION LIMITATIONS APPROVED BY

*W. H. Harkins*

STAFF OR PROJECT ENGINEER

103  
NO. OF PAGES

3074  
WORK ORDER

793  
UNIT NO.

9971  
ITEM NO.

REVISION -				ADDITION			
PAGE	DATE	PAGE	DATE	PAGE	DATE	PAGE	DATE

BAC DOCUMENT TITLE PAGE

**BEST AVAILABLE COPY**

# INDEX

<u>Title</u>	<u>Page</u>	<u>Reference To</u> <u>AN-W-11b</u>
Index	1-2	
References	3	
Introduction	4	E-3g(1)
Summary of Weight & Balance Conditions	5	E-3g(2)
Center of Gravity Graph	6	E-3g(2)
Group Weight Statement	7-15	E-3g(3)
Weight Empty Weighing	16	E-3g(5)
Basic Weight Derivation	17-20	E-3g(6)
Weight Empty Derivation	21-23	E-3g(6)
Balance Summary, Design Gross Weight Condition	24	E-3g(7)
Balance Summary, Maximum Flight & Taxi Gross Weight (Less External Tanks)	25-26	E-3g(7)
Balance Summary, Maximum Taxi Gross Weight (With External Tanks)(With ATO)	27-28	E-3g(7)
Balance Summary, Maximum Taxi Gross Weight (With External Tanks)(Less ATO)	29-30	E-3g(7)
Balance Summary, Maximum Flight Gross Weight (With External Tanks)(Refueled)	31-32	E-3g(7)
Government Furnished Aircraft Equipment, Useful Load	33	E-3g(8)
Government Furnished Aircraft Equipment, Weight Empty	34-38	E-3g(8)
Specification Weight Change Record - Weight Empty	39-40	E-3g(9)
Specification Weight Change Record - Useful Load	41	E-3g(9)
Comparison of Spec. & Actual - Weight Empty	40	E-3g(10)

CALC	L. File 10-5-54	REVISED	DATE	<div>INDEX</div> <div>BOEING AIRPLANE COMPANY</div> <div>WICHITA DIVISION      WICHITA 1, KANSAS</div>	RB-47E
CHECK	L. Denny 10-5-54				WD-10387
APR					PAGE 1
APR					of 103
CONTRACT NO.					

INDEX, CONT'D.

<u>Title</u>	<u>Page</u>	<u>Reference To</u> <u>AN-W-11b</u>
Actual Weight Change Record - Weight Empty	42-43	E-3g(11)
Distribution of "Manufacturing Variation"	43	E-3g(11)
Pages of Handbook AN-01-1B-40 Chart "A"	44-75	E-3g(14)
Pages of Handbook AN-01-1B-40 Chart "C"	76	E-3g(14)
Pages of Handbook AN-01-1B-40 Chart "E"	77-102	E-3g(14)
Pages of Handbook AN-01-1B-40 Chart "F"	103	E-3g(14)

CALC	L. Hile 10-5-54	REVISED	DATE	INDEX, CONT'D.	RB-47E
CHECK	L. Denny 10-5-54				
APR				BOEING AIRPLANE COMPANY	WD-10387
APR					
				WICHITA DIVISION	WICHITA 1, KANSAS
CONTRACT NO.				PAGE 2 of 103	

REFERENCES

1. D-11370-1      Detail Specification For Airplane  
Photo-Reconnaissance and Block 8  
Supplement.
2. AN-W-11b      Air Force Specification - Weight  
and Balance Control Data.

CALC	L. Denny 10-4-54	REVISED	DATE	REFERENCES	RB-47E
CHECK	L. Hile 10-5-54				WD-10387
APR				BOEING AIRPLANE COMPANY WICHITA DIVISION      WICHITA 1, KANSAS	PAGE 3
APR					of 103
CONTRACT NO.					

### INTRODUCTION

This weight report corresponds to an "Actual Weight Report - Intermediate Airplane" in accordance with paragraph E-3g of Specification AN-W-11b. The interval of Weight and Balance Reports is in concurrence with Air Materiel Command Agreement covered in Messageform as is proposed in Wibac Letter 29213453/RP:ADK dated 13 October 1952.

2(d) Weight reports shall be submitted for the first airplane of each block which is representative of the production series.

Weight and balance data presented herein reflect the results of the actual weighing of Airplane AF52-790 on 15 September 1954.  
(Production Block No. 8, AF52-790 thru AF52-825)

CALC	L. Denny	10-4-54	REVISED	DATE	INTRODUCTION	RB-47E
CHECK	L. Hile	10-5-54				
APR						
APR						
					BOEING AIRPLANE COMPANY	WD-10387
					WICHITA DIVISION	PAGE 4
					WICHITA 1, KANSAS	of 103
CONTRACT NO.						

CALC	L. Hile	10-5-54	REVISED	DATE	<p align="center"><b>SUMMARY OF WEIGHT AND BALANCE CONDITIONS</b></p> <p align="center"><b>BOEING AIRPLANE COMPANY</b></p> <p align="center">WICHITA DIVISION      WICHITA 1, KANSAS</p>	RB-47E
CHECK	L. Denny	10-5-54				WD-10387
APR						PAGE 5
APR						of 103
CONTRACT NO.						

FORM E-582

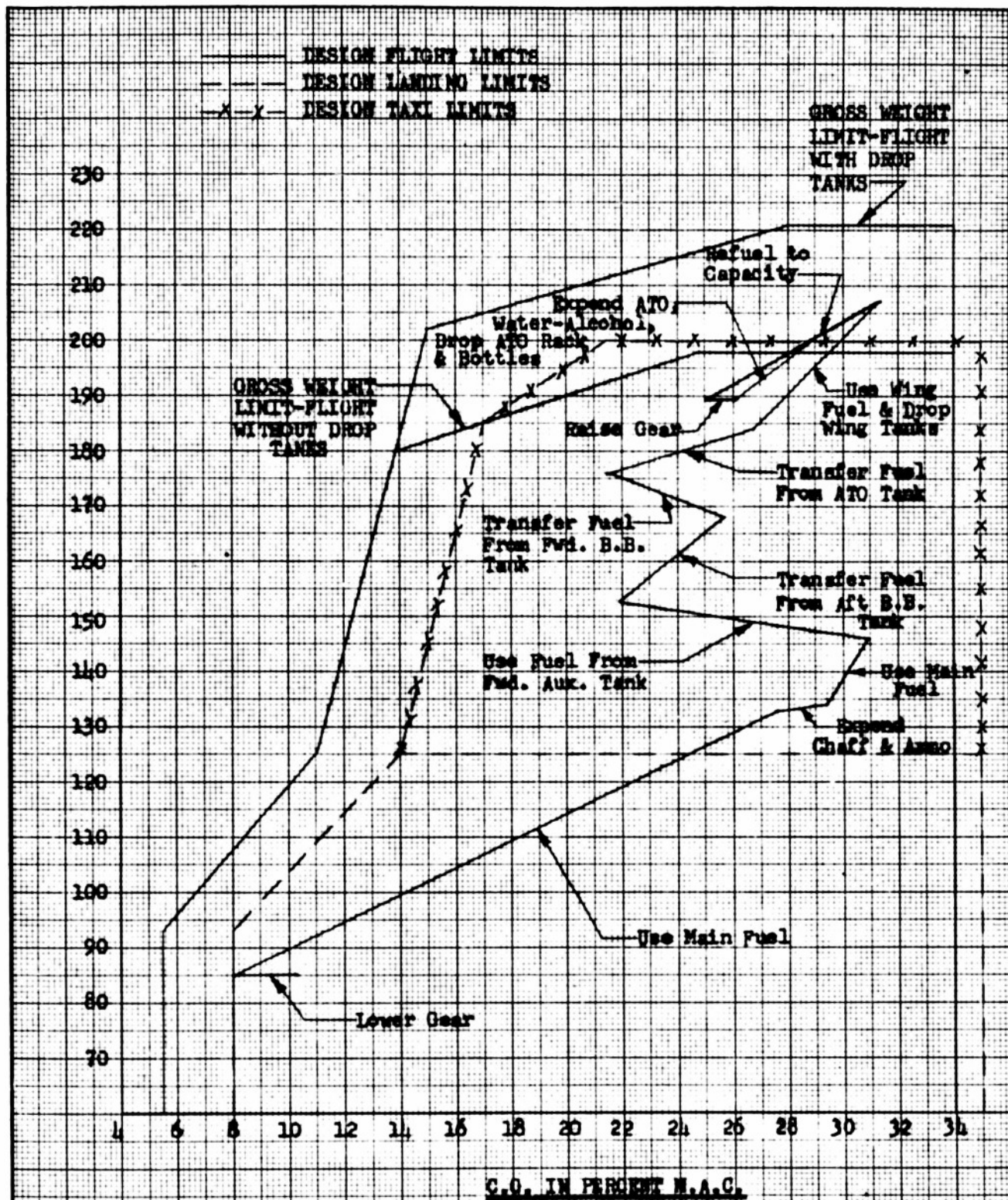
**SUMMARY OF**

**HORIZONTAL WEIGHT AND BALANCE CONDITIONS**

LOAD CONDITIONS	LDG. GEAR POSITION	C.G. % MAC	WEIGHT	ARM	MOMENT	PAGE
A. Weight Empty	Up	10.0	82,194	600.4	49,351,378	23 of 103
Weight Empty	Down	12.4	82,194	604.2	49,663,378	23 of 103
B. Normal Design Gross Weight	Up	23.3	125,000	621.2	77,650,520	24 of 103
Normal Design Gross Weight	Down	25.0	125,000	623.7	77,962,520	24 of 103
C. Max. Flight Gross Weight (Without External Tanks)	Up	26.6	183,742	626.3	115,082,014	25 of 103
Day Mission	Up	26.2	185,409	625.7	116,011,617	26 of 103
Night Mission						
D. Max. Taxi Gross Weight (Without External Tanks)	Down	30.4	194,171	632.2	122,750,738	25 of 103
Day Mission	Down	30.0	195,838	631.5	123,580,341	26 of 103
Night Mission						
E. Max. Taxi Gross Weight (With Ext. Tanks-With ATO)	Down	28.8	200,000	629.7	125,939,186	27 of 103
Day Mission	Down	28.1	200,000	628.6	125,726,060	28 of 103
Night Mission						
F. Max. Taxi Gross Weight (With Ext. Tanks-No ATO)	Down	25.0	200,000	623.8	124,758,991	29 of 103
Day Mission	Down	24.3	200,000	622.7	124,546,807	30 of 103
Night Mission						
G. Max. Flight Gross Weight (With Ext. Tanks-Refueled)	Up	31.3	207,211	633.6	131,291,194	31 of 103
Day Mission	Up	30.9	208,878	633.0	132,220,797	32 of 103
Night Mission						

NOTE: For Dimensional Data See Page 15 of 103.





NOTE: Assumed Typical Mission With Normal Fuel Usage Procedure.

CALC	L. Hile 10-5-54	REVISED	DATE
CHECK	E. Niquette 10-5-54		
APR			
APR			

CENTER OF GRAVITY GRAPH  
 AF52-790  
 BOEING AIRPLANE COMPANY  
 WICHITA 1, KANSAS

RB-47E

WD-10387

PAGE 6  
 OF 103

CONTRACT NO.

AN-910-D  
SUPERSEDING  
AN-910-C

NAME L. Hill  
DATE 9-29-54

PAGE 7 of 103  
MODEL RB-47E  
REPORT WD-10387

## GROUP WEIGHT STATEMENT

~~ESTIMATED~~ - ~~EXTRAPOLATED~~ - ACTUAL

(Cross out those not applicable)

CONTRACT NO. AF33(600)-5148  
AIRPLANE, GOVERNMENT NO. AF52-790  
AIRPLANE, CONTRACTOR NO. 4501011  
MANUFACTURED BY BOEING AIRPLANE CO.

		MAIN	AUXILIARY
ENGINE	MANUFACTURED BY	GENERAL ELECTRIC CO.	
	MODEL	7E-47-GE-25A	
	NO.	3-47-GE-25A	
PROPELLER	MANUFACTURED BY		
	DESIGN NO.		
	NO.		



AN-9193-D

NAME L. EllisDATE 9-29-54GROUP WEIGHT STATEMENT  
WEIGHT EMPTYPAGE 8 of 103MODEL FB-47EREPORT WD-10367

1	WING GROUP					16,407
2	CENTER SECTION - BASIC STRUCTURE					
3	INTERMEDIATE PANEL - BASIC STRUCTURE					
4	OUTER PANEL - BASIC STRUCTURE (INCL. TIPS LBS.)					
5						
6	SECONDARY STRUCTURE (INCL. WINGFOLD MECHANISM LBS.)					
7	AILERONS (INCL. BALANCE WEIGHT LBS.)					
8	FLAPS - TRAILING EDGE					
9	LEADING EDGE					
10	SLATS					
11	SPOILERS					
12	SPEED BRAKES					
13						
14						
15	TAIL GROUP					2,484
16	STABILIZER - BASIC STRUCTURE					
17	FINS - BASIC STRUCTURE (INCL. DORSAL LBS.)					
18	SECONDARY STRUCTURE (STAB. & FINS)					
19	ELEVATOR (INCL. BALANCE WEIGHT LBS.)					
20	RUDDERS (INCL. BALANCE WEIGHT LBS.)					
21	HORIZONTAL TAIL				1,519	
22	VERTICAL TAIL				935	
23	BODY GROUP					13,318
24	FUSELAGE OR HULL - BASIC STRUCTURE					
25	BOOMS - BASIC STRUCTURE					
26	SECONDARY STRUCTURE - FUSELAGE OR HULL					
27	BOOMS					
28	SPEEDBRAKES					
29	DOORS, PANELS & MISC.					
30						
31	ALIGHTING GEAR GROUP - LAND (TYPE: )					7,926
32	LOCATION	WHEELS, BRAKES TIRES, TUBES, AIR	STRUCTURE	CONTROLS		
33						
34						
35	Main				6,848	
36						
37	Outrigger				1,078	
38						
39						
40	ALIGHTING GEAR GROUP - WATER					
41	LOCATION	FLOATS	STRUTS	CONTROLS		
42						
43						
44						
45						
46	SURFACE CONTROLS GROUP					1,948
47	COCKPIT CONTROLS					
48	AUTOMATIC PILOT					
49	SYSTEM CONTROLS (INCL. POWER & FEEL CONTROLS LBS.)					
50						
51	ENGINE SECTION OR NACELLE GROUP					4,247
52	INBOARD				3,358	
53	CENTER					
54	OUTBOARD				889	
55	DOORS, PANELS & MISC.					
56						
57	TOTAL (TO BE BROUGHT FORWARD)					46,330

AN-9103-D

NAME 1. H11DATE 9-29-51GROUP WEIGHT STATEMENT  
WEIGHT EMPTYPAGE 9 of 103MODEL RB-47BREPORT WD-10387

1	PROPULSION GROUP				22,462
2		AUXILIARY	MAIN		
3	ENGINE INSTALLATION			15,877	
4	AFTERBURNERS (IF FURN. SEPARATELY)				
5	ACCESSORY GEAR BOXES & DRIVES			121	
6	SUPERCHARGERS (FOR TURBO TYPES)				
7	AIR INDUCTION SYSTEM				
8	EXHAUST SYSTEM			299	
9	COOLING SYSTEM				
10	LUBRICATING SYSTEM			303	
11	TANKS				
12	COOLING INSTALLATION				
13	DUCTS, PLUMBING, ETC.				
14	FUEL SYSTEM			5,129	
15	TANKS - PROTECTED				
16	UNPROTECTED				
17	PLUMBING, ETC.				
18	WATER INJECTION SYSTEM			633	
19	ENGINE CONTROLS			100	
20	STARTING SYSTEM				
21	PROPELLER INSTALLATION				
22					
23					
24	AUXILIARY POWER PLANT GROUP				
25	INSTRUMENTS & NAVIGATIONAL EQUIPMENT GROUP				507
26	HYDRAULIC & PNEUMATIC GROUP				369
27					
28					
29	ELECTRICAL GROUP				3,527
30					
31					
32	ELECTRONICS GROUP				2,950
33	EQUIPMENT				
34	INSTALLATION				
35					
36	ARMAMENT GROUP (INCL. GUNFIRE PROTECTION LBS.)				1,406
37	FURNISHINGS & EQUIPMENT GROUP				1,054
38	ACCOMMODATIONS FOR PERSONNEL			585	
39	MISCELLANEOUS EQUIPMENT			321	
40	FURNISHINGS			17	
41	EMERGENCY EQUIPMENT			131	
42					
43	AIR CONDITIONING & ANTI-ICING EQUIPMENT GROUP				1,532
44	AIR CONDITIONING			457	
45	ANTI-ICING			1,075	
46					
47	PHOTOGRAPHIC GROUP				1,526
48	AUXILIARY GEAR GROUP				374
49	HANDLING GEAR				
50	ARRESTING GEAR				
51	CATAPULTING GEAR				
52	ATO GEAR				
53					
54					
55	MANUFACTURING VARIATION				+ 157
56	TOTAL FROM PG. 2				46,330
57	WEIGHT EMPTY				82,194

## GROUP WEIGHT STATEMENT (Cont'd)

Page 10 of 103

Model RB-47E

Report WD-10387

	NAME	DATE
PREPARED	L. Hile	9-27-54
CHECKED	L. Denny	10-4-54

## USEFUL LOAD

LOAD CONDITION	DESIGN GROSS	DESIGN GROSS WEIGHT	
See Page 5 of 103			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
31.			
32.			
33.			
34.			
35.			
36.			
37.			
38.			
39.			
40.			
41.			
42.			
43.			
44.			
45.			
46.			
47.			
48.	TOTAL USEFUL LOAD	42,806	
49.	WEIGHT EMPTY	82,194	
50.	GROSS WEIGHT	125,000	

NOTE: Actual or Calculated Weights Have  
Been Used Where Available.

## GROUP WEIGHT STATEMENT (Cont'd)

Page 11 of 103

Model RB-47E

Report WD-10387

	NAME	DATE
PREPARED	L. Hile	9-27-54
CHECKED	L. Denny	10-4-54

## USEFUL LOAD

LOAD CONDITION		ALTERNATE	MAX. FLIGHT GR. WT. LESS EXT. TANKS	MAX. TAXI GR. WT. LESS EXT. TANKS	MAX. TAXI GR. WT. WITH EXT. TANKS WITH ATO	
DAY MISSION (See Page 5 of 103)						
1.						
2.	Crew	(3)	690	690	690	
3.	Survival Kits	(3)	54	54	54	
4.						
5.	Fuel - Engine (15,009 Gals. at 6.5#/Gal.)		97,560	97,560	79,920	(12,295 Gals.)
6.	Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)		534	534	534	
7.	Fuel - Wing Droppable (3,346 Gals.)				21,749	
8.	Fuel Tanks - Wing Drop				1,560	
9.						
10.						
11.	Oil - Engine (26 Gals. at 7.5#/Gal.)		195	195	278	(37 Gals.)
12.						
13.						
14.	Purging - Dry Ice		83	83	160	
15.						
16.						
17.	ATO Racks			509	509	
18.	ATO Bottles	(33)		2,244	2,244	
19.	ATO Charge (Bottle Type)			2,376	2,376	
20.	Engine Augmentation (Water & Alcohol)			5,300	5,300	
21.						
22.						
23.	20 MM Cannon	(2)	199	199	199	
24.	Gun Chargers & Heaters	(2)	29	29	29	
25.	20 MM Ammunition (700 Rounds)		434	434	434	
26.						
27.						
28.	Equipment					
29.	Navigation		24	24	24	
30.	Oxygen & Bottles		158	158	158	
31.	Photographic (Day Mission)		712	712	712	
32.	Spare Amplifiers		31	31	31	
33.						
34.						
35.	Chaff (768 Packages)		845	845	845	
36.						
37.						
38.						
39.						
40.						
41.						
42.						
43.						
44.						
45.						
46.						
47.						
48.	TOTAL USEFUL LOAD		101,548	111,977	117,806	
49.	WEIGHT EMPTY		82,194	82,194	82,194	
50.	GROSS WEIGHT		183,742	194,171	200,000	

NOTE: Actual or Calculated Weights Have Been Used Where Available.

# GROUP WEIGHT STATEMENT (Cont'd)

## USEFUL LOAD

Page 12 of 103  
 Model RB-47E  
 Report WD-10387

	NAME	DATE
PREPARED	L. Hile	9-28-54
CHECKED	L. Denny	10-4-54

LOAD CONDITION	ALTERNATE	MAX. FLIGHT GR.WT. LESS EXT. TANKS	MAX. TAXI GR.WT. LESS EXT. TANKS	MAX. TAXI GR.WT. WITH EXT. TANKS WITH ATO	
NIGHT MISSION (See Page 5 of 103)					
1.					
2.	Crew (3)	690	690	690	
3.	Survival Kits (3)	54	54	54	
4.					
5.					
6.	Fuel - Engine (15,009 Gals. at 6.5#/Gal.)	97,560	97,560	78,253	(12,039 Gals.)
7.	Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)	534	534	534	
8.	Fuel - Wing Droppable (3,346 Gals.)			21,749	
9.	Fuel Tanks - Wing Droppable			1,560	
10.					
11.					
12.	Oil - Engine (26 Gals. at 7.5#/Gal.)	195	195	278	(37 Gals.)
13.					
14.					
15.	Purging - Dry Ice	83	83	160	
16.					
17.					
18.	ATO Racks		509	509	
19.	ATO Bottles (33)		2,244	2,244	
20.	ATO Propellant (Bottle Type)		2,376	2,376	
21.	Engine Augmentation (Water & Alcohol)		5,300	5,300	
22.					
23.					
24.	20 MM Cannon (2)	199	199	199	
25.	Gun Heaters & Chargers (2)	29	29	29	
26.	20 MM Ammunition (700 Rounds)	434	434	434	
27.					
28.					
29.	Equipment				
30.	Navigation	24	24	24	
31.	Oxygen & Bottles	158	158	158	
32.	Photographic (Night Mission)	640	640	640	
33.	Spare Amplifiers	31	31	31	
34.					
35.					
36.	Bomb - Photo (10)	1,500	1,500	1,500	
37.	Shackles & Releases (Photo Bomb) (10)	59	59	59	
38.	Photoflash Cartridges (200)	180	180	180	
39.					
40.					
41.	Chaff (768 Packages)	845	845	845	
42.					
43.					
44.					
45.					
46.					
47.					
48.	TOTAL USEFUL LOAD	103,215	113,644	117,806	
49.	WEIGHT EMPTY	82,194	82,194	82,194	
50.	GROSS WEIGHT	185,409	195,838	200,000	

NOTE: Actual or Calculated Weights Have  
Been Used Where Available.



# GROUP WEIGHT STATEMENT (Cont'd)

## USEFUL LOAD

 Page 13 of 103  
 Model RB-47E  
 Report WD-10387

	NAME	DATE
PREPARED	L. Hile	9-29-54
CHECKED	L. Denny	10-4-54

LOAD CONDITION <u>ALTERNATE</u>			MAX. TAXI GR. WT. WITH EXT. TANKS LESS ATO	MAX. FLIGHT GR. WT. WITH EXT. TANKS REFUELED	
<u>DAY MISSION (See Page 5 of 103)</u>					
1.					
2.	Crew (3)		690	690	
3.	Survival Kits (3)		54	54	
4.					
5.					
6.	Fuel - Engine (13,084 Gals. at 6.5#/Gal.)		85,049	97,560	(15,009 Gals.)
7.	Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)		534	534	
8.	Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	21,749	
9.	Fuel Tanks - Wing Droppable		1,560	1,560	
10.					
11.					
12.	Oil - Engine (37 Gals. at 7.5#/Gal.)		278	278	
13.					
14.					
15.	Purging - Dry Ice		160	160	
16.					
17.					
18.	20 MM Cannon (2)		199	199	
19.	Gun Chargers & Heaters (2)		29	29	
20.	20 MM Ammunition (700 Rounds)		434	434	
21.					
22.					
23.	Equipment				
24.	Navigation		24	24	
25.	Oxygen & Bottles		158	158	
26.	Photographic (Day Mission)		712	712	
27.	Spare Amplifiers		31	31	
28.					
29.					
30.	Chaff (768 Packages)		845	845	
31.					
32.	Engine Augmentation (Water & Alcohol)		5,300		
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					
41.					
42.					
43.					
44.					
45.					
46.					
47.					
48.	TOTAL USEFUL LOAD		117,806	125,017	
49.	WEIGHT EMPTY		82,194	82,194	
50.	GROSS WEIGHT		200,000	207,211	

 NOTE: Actual or Calculated Weights Have Been  
 Used Where Available.

## GROUP WEIGHT STATEMENT (Cont'd)

Page 14 of 103

Model RB-47E

Report WD-10387

	NAME	DATE
PREPARED	L. Hile	9-29-54
CHECKED	L. Denny	10-4-54

## USEFUL LOAD

LOAD CONDITION		ALTERNATE	MAX. TAXI GR. WT. WITH EXT. TANKS LESS ATO	MAX. FLIGHT GR. WT. WITH EXT. TANKS REFUELED	
NIGHT MISSION (See Page 5 of 103)					
1.					
2.	Crew	(3)	690	690	
3.	Survival Kits	(3)	54	54	
4.					
5.					
6.	Fuel - Engine (12,828 Gals. at 6.5#/Gal.)		83,382	97,560	(15,009 Gals.)
7.	Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)		534	534	
8.	Fuel - Wing Droppable (3,346 Gals.)		21,749	21,749	
9.	Fuel Tanks - Wing Droppable		1,560	1,560	
10.					
11.					
12.	Oil - Engine (37 Gals. at 7.5#/Gal.)		278	278	
13.					
14.					
15.	Purging - Dry Ice		160	160	
16.					
17.					
18.	20 MM Cannon	(2)	199	199	
19.	Gun Chargers & Heaters	(2)	29	29	
20.	20 MM Ammunition (700 Rounds)		434	434	
21.					
22.					
23.	Equipment				
24.	Navigation		24	24	
25.	Oxygen & Bottles		158	158	
26.	Photographic (Night Mission)		640	640	
27.	Spare Amplifiers		31	31	
28.					
29.					
30.	Bomb - Photo	(10)	1,500	1,500	
31.	Release & Shackles - Photo Bomb	(10)	59	59	
32.	Photoflash Cartridges	(200)	180	180	
33.					
34.					
35.	Chaff (768 Packages)		845	845	
36.					
37.					
38.	Engine Augmentation (Water & Alcohol)		5,300		
39.					
40.					
41.					
42.					
43.					
44.					
45.					
46.					
47.					
48.	TOTAL USEFUL LOAD		117,806	126,684	
49.	WEIGHT EMPTY		82,194	82,194	
50.	GROSS WEIGHT		200,000	208,878	

NOTE: Actual or Calculated Weights Have  
Been Used Where Available.

AL-9103-D

NAME L. FilleDATE 9-29-54GROUP WEIGHT STATEMENT  
DIMENSIONAL & STRUCTURAL DATAPAGE 15 of 103MODEL RB-47EREPORT WD-10387

1	LENGTH - OVERALL (FT.)	109' 10"	HEIGHT - OVERALL - STATIC (FT.)			28.0'
2		Main Floats	Aux. Floats	Booms	Fuse or Hull	Inboard
3	LENGTH - MAX. (FT.)				108.2	18.8
4	DEPTH - MAX. (FT.)				10.6	4.7
5	WIDTH - MAX. (FT.)				9.6	6.8
6	WETTED AREA (SQ. FT.)				2629.0	267.6 Per Side
*7	FLOAT OR HULL DISPL. - MAX (LBS.)					184.6
8	FUSELAGE VOLUME (CU. FT.)		PRESSURIZED	671.0	TOTAL	5,580.0
9					Wing	M. Tail
10	GROSS AREA (SQ. FT.)				1128.0	268.0
11	WEIGHT/GROSS AREA (LBS./SQ. FT.)				11.5	5.8
12	SPAN (FT.)				116.0	33.0
13	FOLDED SPAN (FT.)					18.7
14						
15	SWEEPBACK - AT 25% CHORD LINE (DEGREES)				35°	33°
16	- AT % CHORD LINE (DEGREES)					35°
**17	THEORETICAL ROOT CHORD - LENGTH (INCHES)				208.0	137.0
18	- MAX. THICKNESS (INCHES)				25.0	13.7
***19	CHORD AT PLANFORM BREAK - LENGTH (INCHES)				200.0	137.0
20	- MAX. THICKNESS (INCHES)				24.0	13.7
***21	THEORETICAL TIP CHORD - LENGTH (INCHES)				87.4	58.0
22	- MAX. THICKNESS (INCHES)				10.5	5.8
23	DORSAL AREA, INCLUDED IN (FUSE.) (HULL) (V. TAIL) AREA (SQ. FT.)				4.5	
24	TAIL LENGTH - 25% MAC WING TO 25% MAC H. TAIL (FT.)				46.5	
25	AREAS (SQ. FT.)	Floors	Flaps Inb'd.	139.0	Flaps Outb'd.	110.6
26		Lateral Controls	Slots		Spalllers	Ailerons
27		Speed Brakes	Wing		Fuse. or Hull	1146.0 TOTAL
28						Brake Chute 32' Dia.
29						Approach Chute 16' Dia.
30	ALIGHTING GEAR	(LOCATION)			Fwd. Main	Aft. Main
31	LENGTH - OLEO EXTENDED - & AXLE TO & TRUNNION (INCHES)				72.5	61.2
32	OLEO TRAVEL - FULL EXTENDED TO FULL COLLAPSED (INCHES)				12.0	12.0
33	FLOAT OR SKI STRUT LENGTH (INCHES)					24.0
34	ARRESTING HOOK LENGTH - & HOOK TRUNNION TO & HOOK POINT (INCHES)					
35	HYDRAULIC SYSTEM CAPACITY (GALS.)		30.4			
36	FUEL & LUBE SYSTEMS	Location	No. Tanks	****Gals. of Capacity	No. Tanks	****Gals. of Capacity
37	Fuel - Internal	Wing		Self Sealing		Non Self Sealing
38		Fuse. or Hull	3	9,204		
39	- External Droppable	Wing			2	3,346
40	- Bomb Bay Fixed	Fuselage			2	3,540
41	- Auxiliary	Fuselage			2	2,265
42	Oil	Wing			6	56.4
43						
44						
45	STRUCTURAL DATA - CONDITION		Fuel in Wings (Lbs.)		Stress Gross Weight	Ult. L.F.
46	FLIGHT				125,000	4.5
47	LANDING				125,000	4.0
48						
49	MAX. GROSS WEIGHT WITH ZERO WING FUEL				198,000	3.0
50	CATAPULTING					
51	MIN. FLYING WEIGHT				85,399	4.5
52	LIMIT AIRPLANE LANDING SINKING SPEED (FT./SEC.)			10 Ft./Sec.		
53	WING LIFT ASSUMED FOR LANDING DESIGN CONDITION (%W)			100% at 1 Factor		
54	STALL SPEED - LANDING CONFIGURATION - POWER OFF (KNOTS)			118 Knots		
55	PRESSURIZED CABIN - ULT. DESIGN PRESSURE DIFFERENTIAL - FLIGHT (P.S.I.)			Crew Comp't. 16 P.S.I.		
56				Canopy 20 P.S.I.		
57	AIRFRAME WEIGHT (LBS.)				55,958	

\*Lbs. of sea water @ 64 lbs./cu. ft.

\*\*Parallel to &amp; at &amp; airplane.

1148 Gallons of this capacity is non self-sealing.

\*\*\*Parallel to &amp; airplane.

\*\*\*\*Total usable capacity.

As defined in A.M.P.R. Forms attached to Dept. of the Air Force  
Letter to A.M.C. AFMIR400.192 Dated 8-3-53.



Prepared By L. Hile  
Date 9-29-54

Report No. WD-10387  
Page 16 of 103  
Model RB-47E

AIRCRAFT ACTUAL WEIGHT AND HORIZONTAL BALANCE

Serial No. AF52-790

FUSELAGE LEVEL

SCALE POSITION	SCALE READING (LBS.)	TARE OR SCALE ERROR	NET WEIGHT	HORIZ. ARM	MOMENT
L.H. Inboard Wing Jack	37,230	0	37,230	544.8	20,282,904
R.H. Inboard Wing Jack	36,830	0	36,830	544.8	20,064,984
Aft Fuselage Jack	7,590	+20	7,610	1167.8	8,886,958
TOTAL (AS WEIGHED)	81,650	+20	81,670	602.9	49,234,846

WEIGHED BY Henry Funderburg USAF WITNESS Harrell Russell  
15 September 1954 DATE 15 September 1954

CORRECTED WEIGHT & HORIZONTAL BALANCE

CONDITION	WEIGHT	HORIZ. ARM	MOMENT
AIRPLANE AS WEIGHED	81,670	(602.9)	49,234,846
Items Added - See page 17 -19 of 103	2,026		1,242,531
Items Deducted - See page 20 of 103	159		86,739
BASIC WEIGHT	83,537	(603.2)	50,390,638
Items Added - See page 21 of 103	391		345,954
Items Deducted - See page 22-23 of 103	1,734		1,073,214
TOTAL WEIGHT EMPTY	82,194	(604.2)	49,663,378

$$\text{BALANCE (CORRECTED)} = \frac{(\text{Horiz. Arm} - 584.8)}{155.9} (100) = \left( \frac{604.2 - 584.8}{155.9} \right) (100) = 12.4 \% \text{ M.A.C.}$$

PREPARED BY T. Slack

## BOEING AIRPLANE COMPANY

PAGE 17 of 103

CHECKED BY L. Hile

WICHITA DIVISION

REPORT NO. WD-10387

DATE 9-15-54

MODEL RB-47E

BASIC WEIGHT DERIVATION	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Airplane as Weighed (Page 16 of 103)	81,670	(602.9)	49,234,846
Add Basic Items Not in Airplane as Weighed;			
Camera K-38 (24" Lens Cone)	53.6	41	2,198
Magazine - Film, Type A-8B	28.1	54	1,517
View Finder	98.0	72	7,056
Magazine Type C-1A	4.3	78	335
Camera - Body, Type C-1	8.4	83	697
Clock	.5	82	41
Ash Tray - Navigator	.3	109	33
Seat - Nav. Ejection	38.8	116	4,501
Safety Belt - Nav. Automatic	3.9	116	452
Shoulder Harness - Nav.	1.1	116	128
Cushion (Back) - Nav.	5.4	116	262
Cushion (Bottom) - Nav.	4.8	116	557
Initiators - T-4 Assy. (2)	1.5	119	179
Initiator - T-4 Assy.	.8	123	98
Catapult - Personnel (Charged)	8.7	125	1,088
Curtain - Anti-Glare (2)	1.5	137	206
Load Adjuster & Case (Stowed)	.8	154	123
Aircraft Checkers Report (Stowed)	.9	154	139
Pilot's Operating Handbook (Stowed)	1.4	154	216
Ash Tray - Pilot's	.6	171	103
Portable Oxygen Cylinder	6.0	173	1,038
Clock	.5	161	81
Indicator - Exhaust Temp. (5)	3.3	161	531
Initiator Type T-5	.8	195	156
Thruster CLX-90-1	1.0	198	198
Initiator Type M-3 (2)	1.5	199	299
Fire Extinguisher Type A-20	7.9	203	1,604
Safety Belt - Pilot's Auto.	4.2	203	853
Shoulder Harness - Pilot's	1.1	203	223
Elevation Pad	.8	203	162
Cushion (Bottom) Pilot's	4.6	203	934
Cup-Food Warming	2.6	208	541
Catapult - Personnel (Charged)	25.1	212	5,321
Initiator - Type M-4	.9	215	194
Initiator - Type T-5	.8	215	172
AF Form I Parts 1 Thru 5	.6	217	130
First Aid Kit	1.9	225	428
Dispenser - Drinking Cup	.4	230	92
Handbook - Oper. Instructions	3.4	233	792
Clock	.5	222	111

REVISED

PREPARED BY T. Slack

## BOEING AIRPLANE COMPANY

PAGE 18 of 103CHECKED BY L. Hile

WICHITA DIVISION

REPORT NO. WD-10387DATE 9-15-54MODEL RB-47E

BASIC WEIGHT DERIVATION	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Add Basic Items Not in Airplanes as Weighed; (Cont'd.)			
Radio Facility Charts (Stowed) (2)	1.7	233	405
Radio Facility Chart & Flight Info. (Stowed) (2)	1.0	233	410
Handbook - Weight & Balance (Stowed)	1.3	233	303
Supplementary Flight Info. (Stowed) (2)	1.5	233	350
Thermos Bottle (2)	9.7	238	2,309
Periscopic Sextant & Stowage Box	20.4	245	4,998
Canopy Lock (Stowed) (2)	5.4	254	1,372
Hand Axe	2.6	254	660
Initiator Type T-5	.8	256	205
Initiator Type M-3	1.5	260	390
Thruster Type M-3	1.0	259	259
Safety Belt - Co-Pilot's Auto.	4.2	264	1,109
Shoulder Harness - Co-Pilot's	1.1	264	290
Elevation Pad	.8	264	211
Cushion (Bottom) - Co-Pilot's	4.6	264	1,214
Initiator Type M-4	.9	264	238
Portable Oxygen Cylinder	6.0	268	1,608
Catapult - Personnel (Charged)	25.1	275	6,903
Initiator - Type T-5	.8	278	222
Inspection Regulations (Stowed)	.7	312	218
Book Assy. - Radio (Stowed)	2.1	312	655
Book Assy. - Elect. (Stowed)	5.5	312	1,716
Cover - Aircraft Canopy (Stowed)	31.5	330	10,395
Rod Assy. - Aft Main Gaging (Stowed)	1.1	349	384
Cover Assy. - Fwd. Wheel Well (Stowed)	16.5	362	5,973
Cover Assy. - Aft. Wheel Well (Stowed)	18.6	362	6,733
Camera K-38 (36" Lens Cone) (2)	121.6	539	65,542
Magazine A-8B (2)	56.2	539	30,292
Camera K-38 (36" Lens Cone)	60.8	573	34,838
Magazine A-8B	28.1	573	16,101
Camera KA-3 (LA-7 Lens Cone) (3)	88.0	610	53,680
Magazine A-28 (3)	154.8	610	94,428
Control - Memory Delay	6.2	619	3,838
Mounting Base - Memory Delay Unit	4.4	619	2,724
Pulse Shaper - Memory Delay Unit (2)	4.1	619	2,538
Main L.G. Locks (Stowed) (2)	2.0	1026	2,052
Jack Pads (Stowed) (4)	6.0	1026	6,156
Mooring Eyes (Stowed) (2)	1.2	1026	1,231
Dectector - Photo Flash	9.3	1056	9,821
Cover Assy. - Tail Turret (Stowed)	8.9	1067	9,496

REVISED:

CHECKED BY L. Hilo

REPORT NO. WD-10387

DATE 9-15-54

MODEL RB-47E

BASIC WEIGHT DERIVATION	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Add Basic Items Not in Airplane as Weighed; (Cont'd.)			
Outrigger L.G. Locks (Stowed) (2)	23.5	1070	25,115
Cover Assy. - Fuselage Nose (Stowed)	16.7	1075	17,953
Battery K-1 (2)	146.2	1108	161,990
Parachute Assy. - Approach	33.2	1187	39,408
Brake Chute	87.0	1189	103,443
Booster & Box Assy. (2)	52.0	1234	64,168
Gun Charger (2)	27.8	1269	35,278
Ammo Chute (2)	14.6	1270	18,542
Heater - Gun (2)	1.5	1282	1,923
Feeder Mechanism (2)	39.2	1285	50,372
Fuel - Unusable (82.2 Gals. at 6.5#/Gal.)	534.0		304,000
Moment Change - Fwd. Main Gear			
Down Compressed to Down Extended			3,540
Moment Change - Aft. Main Gear			
Down Compressed to Down Extended			- 290
Moment Change - Outriggers			
Down Compressed to Down Extended			1,003
<b>TOTAL ADDITIONS</b>	<b>2025.8</b>		<b>1,242,531</b>

REVISED.

PREPARED BY T. Slack  
CHECKED BY L. Hile  
DATE 9-15-54

BOEING AIRPLANE COMPANY  
WICHITA DIVISION

PAGE 20 of 103  
REPORT NO. WD-10387  
MODEL RB-47E

BASIC WEIGHT DERIVATION	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Deduct Non Basic Items From Airplane as Weighed:			
Catapult - Shop Equipment	.8	212	170
Catapult - Dummy	6.0	275	1,650
Fwd. Main Down Lock	1.0	346	346
Oleo Locks	17.8	404	7,191
Down Locks - Bomb Doors (2)	7.1	428	3,039
Aft. Main Gear Down Locks	1.0	792	792
Oleo Locks	18.3	853	15,610
Wing Jack Cones (4)	6.0	602	3,612
Mooring Eyes (2)	1.2	649	779
Intake Protective Screens (4)	37.0	427	15,799
Lock Assy. L.G. Down (2)	23.5	547	12,855
Oleo Locks - Outriggers (2)	20.3	562	11,409
Intake Protective Screens (2)	18.5	729	13,487
TOTAL DEDUCTIONS		158.5	86,739
BASIC WEIGHT - WHEELS DOWN		83,537 (603.2)	50,390,638

REVISED





PREPARED BY L. Hile

BOEING AIRPLANE COMPANY

PAGE 22 of 103CHECKED BY L. Derry

WICHITA DIVISION

REPORT NO. WD-10387DATE 9-24-54MODEL B-47E

WEIGHT EMPTY DERIVATION FROM A BASIC WEIGHT CONDITION	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Deduct Basic Weight Items Not in Weight Empty:			
Camera K-38 (24" Lens Cone)	53.6	41	2,198
Magazine - Camera Type A-8B	28.1	54	1,517
Mount	9.3	41	381
Cushion (Bottom) Navigator's	4.8	116	557
Oxygen Cylinder, F-1	9.3	165	1,535
Portable Oxygen Cylinder, MA-1	6.0	173	1,038
Cushion & Pad (Bottom) - Pilot's	5.4	203	1,096
Oxygen Cylinder - G-1	17.7	207	3,664
Canopy Lock (Stowed) (2)	5.4	254	1,372
Cushion & Pad (Bottom) - Co-Pilot's	5.4	264	1,426
Portable Oxygen Cylinder, MA-1	6.0	268	1,608
Oxygen in System	19.6		7,271
Cover - Canopy (Stowed)	31.5	330	10,395
Rod Assy. - Main Aft Caging	1.1	349	384
Cover Assy. - Fwd. Wheel Well (Stowed)	16.5	362	5,973
Cover Assy. - Aft. Wheel Well (Stowed)	18.6	362	6,733
Oxygen Cylinder, G-1 (2)	35.4	170	6,018
Oxygen Cylinder, F-1	9.3	191	1,776
Oxygen Cylinder, G-1	17.7	276	4,885
Release Assy. Photo Flash Bomb (10)	28.0	459	12,852
Bomb Shackle (10)	31.0	459	14,229
Camera, K-38 (36" Lens Cone) (2)	121.6	539	65,542
Magazine - Camera Type A-8B (2)	56.2	539	30,292
Camera, K-38 (36" Lens Cone)	60.8	573	34,838
Magazine - Camera Type A-8B	28.1	573	16,101
Camera, KA-3 (LA-7 Lens Cone) (3)	88.0	610	53,680
Magazine - Camera Type A-28 (3)	154.8	610	94,428
Oxygen Cylinder, F-1 (2)	18.6	757	14,080
Oxygen Cylinder, G-1	17.7	839	14,850
Main L.G. Locks (Stowed) (2)	2.0	1026	2,052
Jack Pads (Stowed) (4)	6.0	1026	6,156
Mooring Eyes (Stowed) (2)	1.2	1026	1,231
Cover Assy. - Tail Turret (Stowed)	8.9	1067	9,496
Outrigger L.G. Locks (Stowed) (2)	23.5	1070	25,145
Cover Assy. - Fuselage Nose	16.7	1075	17,953
Radio, Electrical & Placard Book	7.6	312	2,371

REVISED

PREPARED BY L. Hilo

**BOEING AIRPLANE COMPANY**

PAGE 23 of 103

CHECKED BY L. Denny

REPORT NO. **WD-10387**

DATE 9-24-54

MODEL. RB-47E

WEIGHT EMPTY DERIVATION FROM A BASIC WEIGHT CONDITION		WEIGHT	HORIZONTAL	
			ARM	MOMENT
Deduct Basic Weight Items Not in Weight Empty; Cont'd.				
Gun Chargers	(2)	27.8	1269	35,278
Heaters J-5	(2)	1.5	1282	1,923
Guns - Aircraft 20 MM	(2)	198.5	1292	256,462
Unusable Fuel		534.0		304,000
Instl. B. & N.		.8		428
TOTAL DEDUCTIONS		1734.0		1,073,214
WEIGHT EMPTY - WHEELS DOWN		12.4% MAC	82,194	(504.2) 49,663,378
Raise Wheels				- 312,000
WEIGHT EMPTY - WHEELS UP		10.0% MAC	82,194	(600.4) 49,351,378

**025043**



PREPARED BY L. Hile

BOEING AIRPLANE COMPANY

PAGE 24 of 103CHECKED BY L. Denny

WICHITA DIVISION

REPORT NO. WD-10387DATE 10-5-54MODEL RB-47E

BALANCE SUMMARY DESIGN GROSS WEIGHT		WEIGHT	HORIZONTAL	
			ARM	MOMENT
<b>Non-Expendable Useful Load</b>		( 2,411)		(1,145,990)
Pilot		230	190.0	43,700
Co-Pilot		230	252.0	57,960
Photo-Navigator		230	108.0	24,840
Navigation Equipment		24	120.0	2,880
Oxygen Bottles		138		49,597
Survival Kits	(3)	54	183.3	9,898
Spare Amplifiers - K-System	(16)	31	145.0	4,495
Unusable Fuel		534		304,000
20 MM Cannon	(2)	199	1292.0	257,108
Chargers & Heaters - Gun	(2)	29	1270.0	36,830
Photographic Equipment (Day Mission)		712		354,682
<b>Expendable Useful Load</b>		(40,395)		(27,153,152)
Oil - Engine (20 Gals. at 7.5#/Gal.)		150	641.3	96,195
Oxygen		20		7,271
Purging - Dry Ice		83	764.4	63,445
Ammunition - 20 MM (700 Rounds)		434	1235.0	535,990
Chaff (768 Packages)		845	782.0	660,790
Fuel - Normal Fixed (5,979 Gals. at 6.5#/Gal.)		38,863		25,789,461
<b>TOTAL USEFUL LOAD</b>		(42,806)		(28,299,142)
<b>WEIGHT EMPTY - WHEELS UP</b>	10.0% MAC	82,194	(600.4)	49,351,378
<b>DESIGN GROSS WEIGHT - WHEELS UP</b>	23.3% MAC	125,000	(621.2)	77,650,520
<b>Lower Wheels</b>				+ 312,000
<b>DESIGN GROSS WEIGHT - WHEELS DOWN</b>	25.0% MAC	125,000	(623.7)	77,962,520



PREPARED BY L. Hile

BOEING AIRPLANE COMPANY

PAGE 26 of 103CHECKED BY L. Denny

WICHITA DIVISION

REPORT NO. WD-10387DATE 10-4-54MODEL RB-47E

BALANCE SUMMARY		HORIZONTAL	
MAXIMUM FLIGHT AND TAXI GROSS WEIGHT (LESS EXTERNAL TANKS)(NIGHT MISSION)		WEIGHT	MOMENT
		ARM	
Non-expendable Useful Load	(2,398)		(1,182,613)
Pilot	230	190.0	43,700
Co-Pilot	230	252.0	57,960
Photo-Navigator	230	108.0	24,840
Navigation Equipment	24	120.0	2,880
Oxygen Bottles	138		49,597
Survival Kits (3)	54	183.3	9,898
Spare Amplifiers - K-System (16)	31	145.0	4,495
Unusable Fuel	534		304,000
Installation Parts - Photo Bomb	59	459.0	27,081
20 MM Cannon (2)	199	1292.0	257,108
Chargers & Heaters - Gun (2)	29	1270.0	36,830
Photographic Equipment	640		364,224
Expendable Useful Load	(100,817)		(65,477,626)
Oil - Engine (26 Gals. at 7.5#/Gal.)	195	641.3	125,054
Oxygen	20		7,271
Purging - Dry Ice	83	764.4	63,445
Ammunition - 20 MM (700 Rounds)	434	1235.0	535,990
Photoflash Cartridges (200)	180	1061.0	190,980
Photo-Bomb (10)	1,500	468.0	702,000
Chaff (768 Packages)	845	782.0	660,790
Fuel - Normal Fixed (15,009 Gals. at 6.5#/Gal.)	97,560		63,192,096
TOTAL USEFUL LOAD	(103,215)		(66,660,239)
WEIGHT EMPTY - WHEELS UP 10.0% MAC	82,194	(600.4)	49,351,378
MAX. FLIGHT GROSS WEIGHT - WHEELS UP 26.2% MAC (Less Ext. Tanks)	185,409	(625.7)	116,011,617
Lower Wheels			+ 312,000
ATO Rack - External	+ 509	916.4	466,448
ATO Bottles (33)	+ 2,244	916.8	2,057,299
ATO Propellant - Bottle Type	+ 2,376	914.3	2,172,377
Engine Augmentation - Water & Alcohol	+ 5,300	502.0	2,660,600
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (Less Ext. Tanks) 30.0% MAC	195,838	(631.5)	123,680,341

REVISED:

PREPARED BY L. Hile

## BOEING AIRPLANE COMPANY

PAGE 27 of 103CHECKED BY L. Denny

WICHITA DIVISION

REPORT NO. WD-10387DATE 10-4-54MODEL RB-47E

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(WITH ATO)(DAY MISSION)		HORIZONTAL	
	WEIGHT	ARM	MOMENT
Non-expendable Useful Load	(2,411)		(1,145,990)
Pilot	230	190.0	43,700
Co-Pilot	230	252.0	57,960
Photo-Navigator	230	108.0	24,840
Navigation Equipment	24	120.0	2,880
Oxygen Bottles	138		49,597
Survival Kits (3)	54	183.3	9,898
Spare Amplifiers (16)	31	145.0	4,495
Unusable Fuel	534		304,000
20 MM Cannon (2)	199	1292.0	257,108
Chargers & Heaters - Gun (2)	29	1270.0	36,830
Photographic Equipment	712		354,682
Expendable Useful Load	(115,395)		(75,129,818)
Oil - Engine (37 Gals. at 7.5#/Gal.)	278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)	21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable	1,560	698.9	1,090,284
Oxygen	20		7,271
Purging - Dry Ice	160	764.4	122,304
Ammunition - 20 MM (700 Rounds)	434	1235.0	535,990
Chaff (768 Packages)	845	782.0	660,790
ATO Rack - External	509	916.4	466,448
ATO Bottles (33)	2,244	916.8	2,057,299
ATO Propellant (Bottle Type)	2,376	914.3	2,172,377
Engine Augmentation - Water & Alcohol	5,300	502.0	2,660,600
Fuel - Normal Fixed (12,295 Gals. at 6.5#/Gal.)	79,920		50,171,364
TOTAL USEFUL LOAD	(117,806)		(76,275,808)
WEIGHT EMPTY - WHEELS DOWN 12.4% MAC	82,194	(804.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (With Ext. Tanks)(With ATO) 28.8% MAC	200,000	(629.7)	125,939,186

REVISED:

PREPARED BY L. Hile

BOEING AIRPLANE COMPANY

PAGE 28 of 103CHECKED BY L. Danny

WICHITA DIVISION

REPORT NO. WD-10387DATE 10-5-54MODEL RB-47E

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(WITH ATO)(NIGHT MISSION)	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Non-expendable Useful Load	(2,398)		(1,182,613)
Pilot	230	190.0	43,700
Co-Pilot	230	252.0	57,960
Photo - Navigator	230	108.0	24,840
Navigation Equipment	24	120.0	2,880
Oxygen Bottles	138		49,597
Survival Kits (3)	54	183.3	9,898
Spare Amplifiers - K-System (16)	31	145.0	4,495
Unusable Fuel	534		304,000
Installation Parts - Photo Bomb	59	459.0	27,081
20 MM Cannon (2)	199	1292.0	257,108
Chargers & Heater - Gun (2)	29	1270.0	36,830
Photographic Equipment	640		364,224
Expendable Useful Load	(115,408)		(74,880,069)
Oil-Engine (37 Gals. at 7.5#/Gal.)	278	641.3	178,281
Fuel-Wing Droppable (3,346 Gals. at 6.5#/Gal.)	21,749	670.0	15,006,810
Fuel Tanks-Wing Droppable	1,560	698.9	1,090,284
Oxygen	20		7,271
Purging - Dry Ice	160	764.4	122,304
Ammunition - 20 MM (700 Rounds)	434	1235.0	535,990
Photoflash Cartridges (200)	180	1061.0	190,980
Bomb - Photo (10)	1,500	468.0	702,000
Chaff (768 Packages)	845	782.0	660,790
ATO Rack - External	509	916.4	466,448
ATO Bottles (33)	2,244	916.8	2,057,299
ATO Propellant (Bottle Type)	2,376	914.3	2,172,377
Engine Augmentation - Water & Alcohol	5,300	502.0	2,660,600
Fuel - Normal Fixed (12,039 Gals. at 6.5#/Gal.)	78,253		49,028,635
TOTAL USEFUL LOAD	(117,806)		(76,062,682)
WEIGHT EMPTY-WHEELS DOWN 12.4% MAC	82,194	(604.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (With Ext. Tanks) (With ATO) 28.1% MAC	200,000	(628.6)	125,726,060

REVISED



PREPARED BY L. Hile

BOEING AIRPLANE COMPANY

PAGE 29 of 103CHECKED BY L. Denny

WICHITA DIVISION

REPORT NO. WD-10387DATE 10-5-54MODEL RB-47E

BALANCE SUMMARY		HORIZONTAL	
MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(LESS ATO)(DAY MISSION)		WEIGHT	ARM
			MOMENT
Non-expendable Useful Load		(2,411)	(1,145,990)
Pilot		230	190.0
Co-Pilot		230	252.0
Photo-Navigator		230	108.0
Navigation Equipment		24	120.0
Oxygen Bottles		138	
Survival Kits	(3)	54	183.3
Spare Amplifiers - K-System	(16)	31	145.0
Unusable Fuel		534	
Photographic Equipment		712	
20 MM Cannon	(2)	199	1292.0
Chargers & Heaters - Gun	(2)	29	1270.0
Expendable Useful Load		(115,395)	(73,949,623)
Fuel - Normal Fixed (13,084 Gals. at 6.5#/Gal.)		85,049	
Oil - Engine (37 Gals. at 7.5#/Gal.)		278	641.3
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)		21,749	690.0
Fuel Tanks - Wing Droppable		1,560	698.9
Oxygen		20	
Purging - Dry Ice		160	764.4
Ammunition - 20 MM (700 Rounds)		434	1235.0
Chaff (768 Packages)		845	782.0
Engine Augmentation - Water & Alcohol		5,300	502.0
TOTAL USEFUL LOAD		(117,806)	(75,095,613)
WEIGHT EMPTY - WHEELS DOWN 12.1% MAC		82,194	(604.2)
MAX. TAXI GROSS WEIGHT - WHEELS DOWN (With Ext. Tanks)(Less ATO) 25.0% MAC		200,000	(623.8)

REVISED:

PREPARED BY L. Hile

BOEING AIRPLANE COMPANY

PAGE 30 of 103CHECKED BY L. Denny

WICHITA DIVISION

REPORT NO. WD-10387DATE 10-5-54MODEL RB-47E

BALANCE SUMMARY MAXIMUM TAXI GROSS WEIGHT (WITH EXT. TANKS)(LESS ATO)(NIGHT MISSION)	WEIGHT	HORIZONTAL	
		ARM	MOMENT
Non-expendable Useful Load	(2,398)		(1,182,613)
Pilot	230	190.0	43,700
Co-Pilot	230	252.0	57,960
Photo-Navigator	230	108.0	24,840
Navigation Equipment	24	120.0	2,880
Oxygen Bottles	138		49,597
Survival Kits (3)	54	183.3	9,898
Spare Amplifiers, K-System (16)	31	145.0	4,495
Unusable Fuel	534		304,000
Photographic Equipment	640		364,224
Instl. Parts - Photo Bomb	59	459.0	27,081
20 MM Cannon (2)	199	1292.0	257,108
Chargers & Heaters - Gun (2)	29	1270.0	36,830
Expendable Useful Load	(115,408)		(73,700,816)
Fuel - Normal Fixed (12,828 Gals. at 6.5#/Gal.)	83,382		52,545,506
Oil - Engine (37 Gals. at 7.5#/Gal.)	278	641.3	178,281
Fuel - Wing Droppable (3,346 Gals. at 6.5#/Gal.)	21,749	690.0	15,006,810
Fuel Tanks - Wing Droppable	1,560	698.9	1,090,284
Oxygen	20		7,271
Purging - Dry Ice	160	764.4	122,304
Ammunition - 20 MM (700 Rounds)	434	1235.0	535,990
Photoflash Cartridges (200)	180	1061.0	190,980
Bomb - Photo (10)	1,500	468.0	702,000
Chaff (768 Packages)	845	782.0	660,790
Engine Augmentation - Water & Alcohol	5,300	502.0	2,660,600
TOTAL USEFUL LOAD	(117,806)		(74,883,429)
WEIGHT EMPTY - WHEELS DOWN 12.4% MAC	82,194	(604.2)	49,663,378
MAX. TAXI GROSS WEIGHT - WHEELS DOWN 24.3% MAC (With Ext. Tanks)(Less ATO)	200,000	(622.7)	124,546,807







PREP BY L. Elio  
 CHKD BY L. Denny  
 DATE 9-30-54

**BOEING AIRPLANE COMPANY**  
**WICHITA DIVISION**  
 GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT  
 CONTRACT NO. \_\_\_\_\_

PAGE 33 of 103  
 REPORT WD-10387  
 MODEL RB-47E

SPEC. NO.	PAGE NO.	USEFUL LOAD G.F.A.E. SUMMARY ITEM	CHANGE NO.	TOTAL PER AIRPLANE					
				SPEC. WT.		CURRENT REPORT		OVER OR UNDER WT.	
				PREVIOUS	CURRENT	ACTUAL WT.	OVER OR UNDER WT.	PREVIOUS	SINCE LAST REPORT
		Ordnance		225	225	228	+ 3	+ 3	- - - -
		Photographic		677	689	702	+13	+51	- 38
		Total G.F.A.E. Useful Load		902	914	930			
		Total G.F.A.E. Useful Load Overweight					+16	+54	- 38
		<u>PHOTOGRAPHIC</u>		677.0	689.0	702.2	+13.2	+51.3	- 30.1
136		Tri-Camera Station Magazine, Type LA-12 & Film Magazine, Type A-28	1962M (Out) 1742M	195.0 - - -	- - - 207.0	- - - 199.8	- - - - 7.2	+30.9 - - -	- 30.9 - 7.2
		Note: This list does not include G.F.A.E. useful load items installed by service activities.							

PREP BY I. Hile  
 CHKD BY Denny  
 DATE 9-30-54

**BOEING AIRPLANE COMPANY**  
**WICHITA DIVISION**

GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT  
 CONTRACT NO. \_\_\_\_\_

PAGE 34 of 103  
 REPORT WD-10387  
 MODEL RB-17E

SPEC. PAGE NO.	G.F.A.E. SUMMARY WEIGHT EMPTY ITEM	CHANGE NO.	TOTAL PER AIRPLANE					
			SPEC WT		CURRENT REPORT		OVER OR UNDER WT	
			PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT	PREVIOUS	SINCE LAST REPORT
0 11370-1	Main Alighting Gear		3489	3489	3177	- 312	- 245	- 67
	Auxiliary Alighting Gear		117	117	123	+ 6	+ 6	-
	Engines		16062	16062	15877	- 185	- 109	- 76
	Accessory Gear Boxes & Drives		121	121	121	-	-	-
	Water Injection		99	99	107	+ 8	+ 8	-
	Exhaust System		20	20	21	+ 1	+ 1	-
	Instruments		225	210	214	+ 4	+ 4	-
	Electrical Equipment		507	507	507	-	-	-
	Electronics		2013	2048	2009	- 39	- 37	- 2
	Armament		1090	1090	1167	+ 77	+ 77	-
	Photographic		192	569	599	+ 30	- 16	+ 46
	Personnel Accommodations		86	86	89	+ 3	+ 3	-
	Emergency Accommodations		56	56	47	- 9	- 9	-
	TOTAL G.F.A.E. WEIGHT EMPTY		24077	24474	24058		- 416	- 99
	TOTAL G.F.A.E. WEIGHT EMPTY UNDERWEIGHT							

PREP BY L. Hila  
 CHKD BY L. Denny  
 DATE 9-30-54

**BOEING AIRPLANE COMPANY**  
**WICHITA DIVISION**  
 GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT  
 CONTRACT NO

PAGE 35 of 103  
 REPORT WD-10387  
 MODEL RB-47E

SPEC	PAGE NO	G.F.A.E. WEIGHT EMPTY ITEM	CHANGE NO.	QUAN TITY	TOTAL PER AIRPLANE					
					SPEC WT		CURRENT REPORT		OVER OR UNDER WT	
					PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT	PREVIOUS	SINCE LAST REPORT
		<u>ALIGHTING GEAR</u>								
96	011370-1	Main Gear (Includes Wheels, Tires, Tubes & Brakes)			3605.6	3605.6	3300.0	-305.6	-238.5	- 67.1
96		Outrigger Gear (Includes Wheels, Tires & Tubes)			3489.0	3489.0	3177.0	-312.0	-245.0	- 67.0
					116.6	116.6	123.0	+ 6.4	+ 6.5	- .1

PREP BY L. Hille  
 CHKD BY L. Denny  
 DATE 8-30-54

**BOEING AIRPLANE COMPANY**  
**WICHITA DIVISION**  
 GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT  
 CONTRACT NO.

PAGE 36 of 103  
 REPORT WD-10387  
 MODEL RB-47E

SPEC. D. PAGE NO.	O.P.A.E. WEIGHT EMPTY ITEM	CHANGE NO	TOTAL PER AIRPLANE						
			SPEC WT		CURRENT REPORT		OVER OR UNDER WT		SINCE LAST REPORT
			QUAN TITY	PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT	PREVIOUS	
9	<u>PROPULSION</u> Engines, Type 7E-J47-25A		6	16062.00	16062.00	15877.00	-185.00	-109.00	- 76.00
				225.04	210.04	213.89 + 3.85	+ 3.69	+ .16	
74	Clock, Type A-11	1757 M	3	1.14	- - -	- - -	- - -	- - -	- - -
	Clock, Type A-13A		3	- - -	1.14	1.38 + .24	- - -	- - -	+ .24
76	Inverter, AN3533	1667 M	2	50.00	- - -	- - -	- - -	- 1.92	+ 1.92
76	Inverter, AN3534-1		1	- - -	35.00	33.00 - 2.00	- - -	- - -	- 2.00
76	<u>ELECTRONICS</u> Inverter, AN3534-1	1667 M		2012.62	2047.62	2008.90 - 38.72	- 36.72	- 2.00	- 2.00
			1	- - -	35.00	33.00 - 2.00	- - -	- - -	- 2.00

PREP BY L. Hille  
CHKD BY L. Penny  
DATE 9-30-54

BOEING AIRPLANE COMPANY  
WICHITA DIVISION  
GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT  
CONTRACT NO

PAGE 37 of 103  
REPORT WD-10387  
MODEL RB-47E

SPEC. PAGE NO	O.F.A.B. WEIGHT EMPTY ITEM	CHANGE NO	QUAN TITY	TOTAL PER AIRPLANE				OVER OR UNDER WT	SINCE LAST REPORT
				SPEC WT	CURRENT REPORT	ACTUAL WT	OVER OR UNDER WT		
140 SPEC. PAGE NO D 11370-1	<u>PHOTOGRAPHIC</u> Amplifier, Control B-1 Mount Base, Memory Delay Unit, Type B-5 Pulse Shaper, Memory Delay Unit, Type A-2 Mount Base, Computer Unit, Type B-1 Control, Parameter Selector, Type D-4 Intervalometer, Automatic Overlap, Type C-1 Computer, Control Data, Type B-1 Mount Base, Amplifier Unit, Type B-2 Amplifier, Control, Type D-1 Pulse Shaper, Film Mark Time Base, Type A-1 Chassis, Amplifier Unit, Type D-3 Chassis, Computer Unit, Type D-2 Control, Forward Camera Sta., Type K-1 Control, Interval, Photo Flash Bomb Release, F-3 Control, Interval, Photo Flash Cart. Eject., F-2 Control, Master, Type L-6 Control, Split Vert. Sta., Type K-3 Control, Tri-Camera Sta., Type K-4 Control, Vertical Sta., Type K-2 Detector, Image Velocity, Type A-3 Detector, Photo Flash, Camera Cont., C-1 Detector, Terrain Light, Type B-2 Indicator, Door Position, Type C-1 Junction Box, Camera Sta. Cont., C-4 Junction Box, Camera Sta. Cont., C-5 Junction Box, Conventional Camera, C-3 Junction Box, Door Position Relay, C-6	228LM & -1M 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM 228LM	8 1 2 5 5 3 5 4 4 4 2 2 1 1 1 1 1 1 3 1 1 1 1 1	192.00	569.05	599.23	30.18	-16.30	46.48
				-	13.12	13.12	-	-	-
				-	4.35	4.35	-	-	-
				-	4.14	4.14	-	-	-
				-	25.25	25.25	-	-	-
				-	13.25	13.25	-	-	-
				-	8.88	8.88	-	-	-
				-	8.95	8.95	-	-	-
				-	19.16	19.16	-	-	-
				-	42.44	42.44	-	-	-
				-	6.48	6.48	-	-	-
				-	58.20	77.64	19.44	-	19.44
				-	54.60	74.26	19.66	-	19.66
				-	1.50	1.73	.23	-	.23
				-	5.00	5.54	.54	-	.54
				-	3.50	5.00	1.50	-	1.50
				-	5.00	4.88	-.12	-	-.12
				-	1.50	1.75	.25	-	.25
				-	1.50	1.79	.29	-	.29
				-	1.50	1.71	.21	-	.21
				-	11.00	8.15	-2.85	-	-2.85
				-	20.00	9.25	-10.75	-	-10.75
				-	39.00	39.00	-	-	-
				-	1.00	.83	-.17	-	-.17
				-	1.50	.83	-.67	-	-.67
				-	1.50	.83	-.67	-	-.67
				-	1.50	2.71	1.21	-	1.21
				-	2.50	1.31	-1.19	-	-1.19



PREP BY L. Hile  
 CHKO BY L. Denny  
 DATE 9-30-54

**BOEING AIRPLANE COMPANY**  
**WICHITA DIVISION**  
 GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT  
 CONTRACT NO

PAGE 38 of 103  
 REPORT WD-10387  
 MODEL RB-47E

TOTAL PER AIRPLANE		QUAN TITY	SPEC WT		CURRENT REPORT		OVER OR UNDER WT		SINCE LAST REPORT
			PREVIOUS	CURRENT	ACTUAL WT	OVER OR UNDER WT	PREVIOUS		
SPEC PAGE NO 01370-2	G.P.A.E. WEIGHT EMPTY  ITEM  <u>PHOTOGRAPHIC (Cont'd)</u>	140							
	Junction Box, Door Position Relay, C-7	1	- - -	1.50	3.59	+ 2.09	- - -	+ 2.09	
	Junction Box, Main, Type C-1	1	- - -	34.00	29.61	- 4.39	- - -	- 4.39	
	Junction Box, Photoflash Cart. Eject., C-2	1	- - -	3.90	3.65	- .25	- - -	- .25	
	Memory Delay Unit, Photo Flash Cart. Release, A-2	1	- - -	2.00	3.90	+ 1.90	- - -	+ 1.90	
	Mounting Base, Vibration Insulation, A-1	2	- - -	10.60	13.82	+ 3.22	- - -	+ 3.22	
	Synchronizer-Marker Unit, C-1	1	- - -	15.30	18.10	+ 2.80	- - -	+ 2.80	
	Amplifier	3	22.80	- - -	- - -	- - -	- - -	- - -	
	Intervalometer, B-9A	2	17.00	- - -	- - -	- - -	- 11.00	+ 11.00	
	Filter, Radio Noise	2	1.00	- - -	- - -	- - -	- .02	+ .02	
	Control Head, Type C-4	3	12.00	- - -	- - -	- - -	- 3.18	+ 3.18	
	Control - Interval Memory Delay Unit D-5	1	- - -	6.23	6.23	- - -	- - -	- - -	

CHANGE REF	CHANGE NUMBER	ITEM OR PHASE	B A C PROD	WEIGHT EMPTY			WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG. SECTION OR NACELLE INBD.	ENG. SECTION OR NACELLE OUTB.	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST SYSTEM
				WEIGHT	ARM	MOMENT														
	ORIGINAL SPECIFICATION	WEIGHT EMPTY		81.881																
	SPECIFICATION CHANGES ACCUMULATED THRU LAST REPORT WD-10383			+ 326																
	SPECIFICATION WEIGHT EMPTY AF52-755		123	82.707			16375	1606	960	13243	7183	1108	1868	3395	903	16062	121			30
	ADD SPECIFICATION CHANGES SINCE LAST REPORT AFFECTING AF52-790																			
	REV. FLAP ACTUATING SYSTEM 3577		150&ON	0																
	ADDITIONAL LATCHING PROV. ELEC. ACCESS DOORS 3631		150&ON	+ 7						+ 7										
	RELOCATE AN/ARN-6 RADIO COMFESS LOCP & 619-2M SENSE ANTENNA		158&ON	+ 23						+ 4										
	FUEL QUANTITY GAUGING SYSTEM REV 702 IM		158&ON	+ 23																
	THERMAL ANTI-ICING DUCT REV 950-2IM		158&ON	- 97																
	CHANGE FWD. AUX. TANK TO NON-SELF-SEALING 950-22M CONSTRUCTION		158&ON	- 313						+ 6										
	BOOST PUMP-CIRCUIT BREAKER & WIRE REV. 1003 IM		150&ON	- 3																
	CHANGE AIRPLANE LOW TENSION WIRE 1065 M		150&ON	- 5																
	DEL. PHANTOM TARGET INSTL. 1521 IM		150&ON	- 13																
	FWD. AUX. TANK DEFUEL PLUMBING REV. 1526 M		158&ON	- 23																
	3-PHASE INVERTER REV. - K-SYSTEM & INSTR. 1667 M		158&ON	+ 23																
	INSTL. UNIVERSAL CAMERA CONTROL SYSTEM 1742 M		136&ON	+ 23																
	INSTL. ARC-21 RADIO SET 18518 M		97&ON	+ 32																
	DEL. INSTL. PROV. FOR A-10 CAMERA 1915 IM		132&ON	- 1																
	DEL. VORTEX GENERATORS DEICING PROV. 1943 M		132&ON	- 26																
	REACTIVATE AIR MOISTURE SEPARATOR & 2151 M COOLING UNIT TEMP CONTROL		150&ON	+ 12																
	DEL. SHOCKMITS. FOR RT-124/APS-23 REC-TRANS. 2216 IM		137&ON	- 1																
	REV. UNIVERSAL CAMERA CONTROL SYSTEM 2284 M		136&ON	- 2																
	ADD TYPE E-1 AMP. TO UCCS 2284 IM		136&ON	+ 2																
	MISC. SPEC. REV.			0																
	REMOVE SPECIFICATION CHANGES EFFECTIVE ON AF52-755 BUT NOT ON AF52-790																			
	REPLACE A-18 WITH LA-12 MAG. & HI WITH LA-13 AMP. 1962 M		53-135	- 1																
	SPECIFICATION WEIGHT EMPTY AF52-790			82.651			16375	1606	960	13260	7183	1108	1869	3395	903	16062	121			3

ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCARGERS	AIR INDUCTION	EXHAUST SYSTEM	COOLING SYSTEM	LUBRICATING SYSTEM	FUEL SYSTEM	WATER INJECTION	ENGINE CONTROLS	STARTING SYSTEM	PROPELLERS OR AFTERBURNERS	AUX POWER PLANT	INSTRUMENTS & NAV EQUIP	HYDRAULIC & PNEUMATIC	ELECTRICAL	ELECTRONICS	ARMAMENT	ACCOMM FOR PERSONNEL	MISC. EQUIPMENT	FURNISHINGS	EMERGENCY EQUIPMENT	AIR CONDITIONING	ANTI- ICING	PHOTOGRAPHIC EQUIPMENT	AUXILIARY GEAR
16062	121			309		310	5402	635	101				545	423	3667	2928	1276	648	296	16	128	470	1156	1180	393
							- 4 - 313						28	+ 1 + 1 + 4									- 103		
							- 15						15	+ 3 - 50 - 26										+ 332	
														- 1								+ 12			
														- 60										- 2 + 2	
																								- 1	
16062	121			309		310	5070	635	101				558	423	3530	3010	1336	648	296	16	128	482	1053	1511	393

SPEC. WEIGHT  
CHANGE RECORD  
WEIGHT EMPTY

MODEL	RB-47E
REPORT	WD-10387
PREP	L DENNY
CHK'D	L HILE
PAGE	39
OF	103



DESCRIPTION	CHANGE REF		WEIGHT EMPTY		AIR												
	CHANGE NUMBER	ITEM OR PHASE	BAC PROD AIRPL NO	AT ARM	MOMENT	WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG SECTION OR NACELLE INBD	ENG SECTION OF NACELLE OUTB	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCARGERS
SPECIFICATION WEIGHT EMPTY AF52-790			158	82651		16375	1606	96013260	7183	1108	1869	3395	90316062	121			
GFAE OVER AND/OR UNDER WEIGHT				- 416						- 312 + 6					- 185		
ADJUSTED SPECIFICATION WEIGHT EMPTY				82235		16375	1606	96013260	6871	1114	1869	3395	90315877	121			
ACTUAL WEIGHT EMPTY AF52-790				82194		16487	1519	93513335	6818	1078	1948	3358	88915877	121			
BAC OVER AND/OR UNDER WEIGHT				- 41		+ 112	57	25	135	23	36 +	79	37	14			
UNDER WEIGHT OF PREVIOUSLY REPORTED AIRPLANE				- 215													
UNDER WEIGHT DECREASE SUBSEQUENT TO PREVIOUSLY REPORTED AIRPLANE				174													

1

1

BOEING AIRPLANE COMPANY  
WICHITA DIVISION

ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCARGERS	AIR INDUC TION	EXHAUST SYSTEM	COOLING SYSTEM	LUBRICATING SYSTEM	FUEL SYSTEM	WATER INJECTION	ENGINE CONTROLS	STARTING SYSTEM	PROPELLERS OR AFTERBURNERS	AUX POWER PLANT	INSTRUMENTS & NAV EQUIP	HYDRAULIC & PNEUMATIC	ELECTRICAL	ELECTRONICS	ARMAMENT	ACCOMM FOR PERSONNEL	MISC EQUIPMENT	FURNISHINGS	EMERGENCY EQUIPMENT	AIR CONDITIONING	ANTI- ICING	PHOTOGRAPHIC EQUIPMENT	AUXILIARY GEAR
16062	121			309		310	5070	935	101				558	423	3530	3010	1336	648	296	16	128	482	1053	1511	393
185				+ 1			+ 8					+ 4	- 39	77	3	- 9							+ 30		
15877	121			310		310	5070	643	101			562	423	3530	2971	1413	651	296	16	119	482	1053	1541	393	
15877	121			299		303	5129	633	100			507	369	3527	2950	1406	585	321	17	131	457	1075	1526	374	
				- 11		- 7	59	10	- 1			- 55	54	31	21	7	66	25	1	12	25	22	15	19	

SPEC WEIGHT  
CHANGE RECORD  
WEIGHT EMPTY

MODEL RB-47E  
REPORT WD-10387

PREP L DENNY  
CHKD L HILE

PAGE 40  
OF 103

2

MODEL RB-47E

WAS



LESS FUEL

MODEL	RB-47E
REPORT	WD-10387
PREP.	L. DENNY
CHK'D	L. H/LE
PAGE	41
OF	103

DESCRIPTION	CHANGE NUMBER	CHANGE REF	ITEM OR PHASE	FAC PROD	WEIGHT EMPTY			WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG SECTION NACELLE INBD	ENG SECTION NACELLE OUTB	ENGINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCARGERS	AIR INDUCTION	EXHAUST
					WEIGHT	ARM	MOMENT														
ACTUAL WEIGHT EMPTY AF52-755 (REF. WD-10383)				123	82,176		49,316,588	16407	1549	935	13288	6915	1078	1945	3357	889	15953	121			
APPLY THE FOLLOWING CHANGES TO OBTAIN THE WEIGHT EMPTY OF AF52-790				158																	
ADD SPECIFICATION CHANGES SINCE LAST REPORT AFFECTING AF52-790																					
REV FLAP ACTUATING SYSTEM ADDITIONAL LATCHING PROV ELEC RICAL ACCESS DOORS	3577 3631			150&ON 150&ON	1 7		621 998														
RELOCATE ARN-6 RADIO COMPASS SENSE & LOOP ANTENNA	6.9 2M			158&ON	25		9029				12										
FUEL QUANTITY GAUGING SYSTEM REV THERMAL ANTICIPATING SYSTEM DUCT REV CHANGE FWD AUX TANK TO NON SELF-SEALING CONSTRUCTION	702 950 2M 950 2M			158&ON 158&ON 158&ON	9 27 349		10,198 55,355 105,152				6										
BOOST PUMP-CIRCUIT BREAKER & WIRE REV CHANGE AIRPLANE LOW TENSION WIRE DEL PHANTOM TARGET INCL FWD AUX TANK DEFUEL FLUPLING REV 3-PHASE INVERTER REV- & SYSTEM & INCL INSTL UNIVERSAL CAMERA CONTROL SYSTEM INSTL ARC-21 RADIO SET	1003 M 1025 M 15 1/2 IN 15 1/2 IN 1607 M 174 2M 1851 8M			50&ON 150&ON 150&ON 156&ON 158&ON 136&ON 97&ON	3 5 1 2 14 335 29		1,710 3,000 273 6,345 4,128 236,183 8,932														
DEL INSTL PROV FOR A-10 MOTION PICTURE CAM DEL VORTEX GENERATORS DEICING PROV REACTIVATE AIR MOISTURE SEPARATOR & COOLING UNIT TEMP CONTROL	1915-11M 1943M 2151M			132&ON 132&ON 150&ON	1 36 12		78 23,980 3,486														
DEL SHOCKMIS FOR RI-124/APS-23 REC TRANS REV UNIVERSAL CAMERA CONTROL SYSTEM ADD TYPE E-1 AMPLIFIER TO UCCS	2216 IM 2284M 2284 IM			137&ON 136&ON 136&ON	1 16 2		197 9,598 1,236														
REMOVE CONT. & SPEC CHANGES EFFECTIVE ON AF52-755 BUT NOT ON AF52-790																					
REDESIGN SHROUD FOR ANTICIPATING DUCT-STA 742 REPLACE A-18 WITH A-12 MAG & H-1 WITH LA-13 AMP	2171B 1962M			88-157 53-135	13 1		9,646 310														
TOTALS CARRIED FORWARD					82,005		49,345,725	16407	1549	935	13313	6915	1078	1945	3357	889	15953	121			

BOEING AIRPLANE COMPANY  
WICHITA DIVISION

[illegible]

ACTUAL WEIGHT  
CHANGE RECORD  
WEIGHT EMPTY

MODEL	RB-47E
REPORT	WD-10387

PREP	L. DENNY
CH KD	L. H/LE

PAGE 42  
OF 103



DESCRIPTION	CHANGE REF		WEIGHT EMPTY			WING	HORIZONTAL TAIL	VERTICAL TAIL	BODY	MAIN LANDING GEAR	AUXILIARY LANDING GEAR	SURFACE CONTROLS	ENG SECTION NACELLE INBD	ENG SECTION NACELLE OUTB	L. GINES	ACCESSORY GEAR BOXES & DRIVES	SUPERCHARGERS	AIR INDUCTION	EXHAUST													
	CHANGE NUMBER	ITEM OR PHASE	B & C PROD	AIRPL NO	WEIGHT																											
TOTALS BROUGHT FORWARD					82,095											49,345,725	16407	1549	935,133	69	5	1078	1945	3357	88915953	121						2
ADD CONTRACTOR CHANGES EFFECTIVE ON AF52-790 BUT NOT ON AF52-755																																
ADD FUEL BOOST PUMP NOISE FILTERS - FWD. AUX. TANK	1477-8B		158 & ON		3																											
ADD SPLINED JOINTS IN FLAP ACTUATION SYS	1665B		150 & ON		3																											
REV. SEALING USED FOR GAP FILLING	1941B		150 & ON		3																											
REV. WEB ON OUTBD. NACELLE AIR DUCT	215B		132 & ON		1																											
REPLACE STRAIGHT PLUGS WITH RIGHT ANGLE AT MISC. LOCATIONS	2121E		132 & ON		1																											
REDESIGN SHROUD FOR ANTI-ICING DUCT STA. 742	21711B		153 & ON		2																											
REV. NAC. HINGE PINS & PROV. FOR OUTBD. COWL	2214B		132 & ON		1																											
ADJUST PROCEDURE																																
REV. ANTI-ICING DUCT SHROUD STA. 425	2234B		153 & ON		3																											
CAMERA WELL ACCESS DOOR COUNTER BALANCE ASSY. REV.	24-7B				2																											
VARIATIONS IN ACTUAL WEIGHT OF EQUIP.																																
GFAE																																
ENGINES					76		47338																									
WHEELS, TIRES, TUBES & BRAKES					67		36805																									
CEE																																
FUEL CELLS					66		39558																									
CALCULATED WEIGHT EMPTY					82,027		49,310,100	16407	1549	935,133	18	6848	1078	1948	3358	88915877	121															
MANUFACTURING VARIATION					157		41,369	90																								
ACTUAL WEIGHT EMPTY					82,184		49,551,378	16487	1549	935,133	95	6848	1078	1948	3358	88915877	121															

7

BOEING AIRPLANE COMPANY  
WICHITA DIVISION

[illegible]

ACTUAL WEIGHT  
CHANGE RECORD  
WEIGHT EMPTY

MODEL	RB-47E
REPORT	WL-10387

CH K D L DENNY  
PRFP L HILL

PAGE 43  
OF 103

7-1-54

## CHART A - BASIC WEIGHT CHECK LIST

PAGE 1 OF 32 PAGES		AIRPLANE MODEL	SERIAL NUMBER		DELIVERY DATE		FOR USE IN AN 01-1B-40									
			AF52-790		9-15-54		RECORD OF CHECKING (Enter date)									
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1000	CHECK											
					1	2	3	4	5	6	7	8	9	10		
					IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE		
Nose Section (Nose - Sta. 145)																
A-1	Mount Assy. - Camera	5-45485	21	.1												
A-2	Camera K-17C	(6" Lens Cone)	25	.7												
A-3	Mount Assy. - Camera	5-45485	27	.2												
A-4	Magazine Type A9B	(Empty)	30	.6												
A-5	Camera K-17C	(12" Lens Cone)	31	1.0												
A-6	Camera K-22A	(12" Lens Cone)	32	.9												
A-7	Mount Assy. - Camera	5-45297	32	.3												
A-8	Magazine Type A9B	(Empty)	36	.8												
A-9	Platform Assy. - Camera	5-45483-1	38	.5												
A-10	Magazine Type A9B	(Empty)	39	.8												
A-11	Camera K-22A	(24" Lens Cone)	41	1.8												
A-11a	Camera K-38	(24" Lens Cone)	41	2.2												
A-12	Mount Assy. - Camera	5-45297	41	.4												
A-13	Camera K-38	(36" Lens Cone)	61	2.7												
A-14	Mount Assy. - Camera	5-45297	44	.4												
A-15	Magazine Type A9B	(Empty)	53	1.1												
A-16	Magazine Type A8B	(Empty)	54	1.5												
A-17	Magazine Type A8B	(Empty)	56	1.6												
A-18	Junction Box	J-219 / AFS-23	67	.4												
A-19	View Finder	10-1224-501	72	7.1												
A-20	Magazine Type C-1A		78	.3												
A-21	Indicator	ID-218 / AFS-23	81	1.7												

1/ Enter constant used below line.

DD FORM 365A

1 AUG 50

Chart Date 7-1-54



PAGE 2 OF 32 PAGES		AIRPLANE MODEL	RB-47E	SERIAL NUMBER	AF52-790	DELIVERY DATE		9-15-56						
CHART A - BASIC WEIGHT CHECK LIST		RECORD OF CHECKING (Enter date)												
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	CHECK							
							1	2	3	4	5	6	7	8
							CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY
Nose Section (Nose - Sts. 145)														
A-21a	Indicator	IP-135A/APA-82		23	81	1.9								
A-22	Mounting	MT-516 /APS-23		8	81	.6								
A-23	Camera	Type C-1		6	83	.7								
A-24	Tracking Control	A-2 C-34042A		4	84	.3								
A-25	Control - Primary	Type B-1 C-34043		7	85	.6								
A-26	Indicator - Range	AP-30 /APC-31		13	86	1.1								
A-27	Control - Nav. Computer	D-2 C-34045		25	87	2.2								
A-28	Camera Attachment	MX-751 /APS-23		6	89	.5								
A-28a	Camera Attachment	MX-1159 /APA-82		5	89	.4								
A-29	Table Assy. - Nav.	8-6063		10	91	.9								
A-30	Controller A-12D	10-1075-503 AECE		4	92	.4								
A-31	Control I-6	MIL-97667 UCCS		5	92	.5								
A-32	Control Unit	C-413 /APS-23		12	94	1.1								
A-33	Control - Polar Nav.	F-1 C-34090		17	106	1.8								
A-34	Intervalometer	B-10A MIL-I-5323A		9	106	1.0								
A-35	Control - Intervalometer	F-2 UCCS		5	106	.5								
A-36	Control - Intervalometer	F-3 UCCS		6	106	.6								
A-37	Seat - Nav. Ejection	(Incl. Belt & Harness)		4.5	114	5.3								
A-38	Survival Kit (Life Raft - Seat Type)			15	116	2.1								
A-39	Cushion - Nav. (Back)	ID6574		5	116	.6								
A-40	Cushion - Nav. (Bottom)	6-10326		5	116	.6								
A-41	Control Box, P-8 Camera	MIL-C-6212		11	117	1.3								

1/ Enter constant used below line.

FORM 365A



7-1-54

DD FORM 10387 Page 47 of 103

## CHART A - BASIC WEIGHT CHECK LIST

PAGE 4 OF 32 PAGES		AIRPLANE MODEL	RB-47E	SERIAL NUMBER	AF52-790	DELIVERY DATE		DELIVERY EQUIPMENT		CHECK							
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1000	RECORD OF CHECKING (Enter date)												
					1	2	3	4	5	6	7	8					
					CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE	CHART C ENTRY	IN AIRPLANE			
Pilot's Compt. (Sta. 145-326)																	
<u>PRESSURIZED CABIN</u>																	
B-1	Rack Assy. - Spare Amplifiers	4-2966-2	1145	.3													
B-2	Spare Amplifiers	(16)	1145	4.5													
B-3	Filter	F-57 / APS-23	152	1.2													
B-4	Emulator	DY-77 / AIC-10	152	.5													
B-5	Amplifier - Stab. Type B-1	C-34050	156	10.1													
B-6	Junction Box	J-218 / APS-23	158	2.1													
B-6a	Junction Box	J-438 / APS-23	158	2.5													
B-7	Chemical Toilet	10-1091-1	163	1.2													
B-8	Oxygen Cylinder	F-1 (Charged)	165	1.8													
B-9	Oxygen Cylinder	G-1 (Charged)	165	3.5													
B-10	Rectifier - Power Unit	PP-259 / APS-23	165	4.5													
B-11	Portable Oxygen Cylinder	Type MA-1	173	1.0													
B-12	Amplifier - Two Channel	10-1075-3 AFCE	174	2.1													
B-13	Portable Oxygen Cylinder	Type A-1	176	.2													
B-14	Pedestal Controller	10-1075-4 AFCE	178	.9													
B-15	Relay Box	10-1075-19 AFCE	179	.7													
B-16	Gyro - Vertical	10-1075 AFCE	181	1.3													
B-17	Amplifier - Six Channel	10-1075 AFCE	188	6.6													
B-18	Servo - Control	10-1075-11 AFCE	190	3.0													
B-19	Anti-Exposure Suit	11L-S-5808A	199	.8													
B-20	Slaving Control	15150-0	200	.6													

1/ Enter constant use

DD FORM 10387 Page 47 of 103

Chart Date - See Sheet 1

# CHART A - BASIC WEIGHT CHECK LIST

PAGE 5 OF 32 PAGES		AIRPLANE MODEL	SERIAL NUMBER	AF52-790		DELIVERY DATE		FOR USE IN AN 01-18-40	
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1000	DELIVERY DATE		RECORD OF CHECKING (Enter date)	
		Pilot's Comp. (Sta. 115-326)							
		PRESSURIZED CABIN (Cont'd.)							
E-21	Control - Vertical Servo	21334	12	203	2.4				
E-22	Fire Extinguisher	A-20 111-5-5220	8	203	1.6				
E-23	Seat - Pilot Elect. (Incl. Belt & Harness)		34	203	17.1				
E-24	Seat - Pilot (Incl. Belt & Harness) Webber		75	203	15.2				
E-25	Survival Kit (Life Raft - Seat Type)		18	203	3.7				
E-26	Cushion - Pilot's (Back)	9-22811-501	5	203	1.0				
E-27	Cushion & Pad - Pilots (Bottom)	9-47707	5	203	1.0				
E-28	Relay - Inverter Charge Over	Type B-1	5	203	1.0				
E-29	Indicator N-1 Compass	1000-0	23	203	4.7				
E-30	Indicator Cylinder	G-1 (Charged)	21	207	4.3				
E-31	Cabinilt - Pilot's (Charged)	T5-5	25	212	5.3				
E-32	Cabinilt - Pilot's Dummy	S1211667	6	212	1.3				
E-33	Kit - Blood Plasma	L7312221	7	220	1.5				
E-34	Comm. Unit. (Stow in Pilot's Data Case)		10	233	2.3				
E-35	Thermos Bottle	10928 (2)	10	238	2.4				
E-36	Relay - Inverter Charge Over	Type B-1 (2)	9	244	2.2				
E-37	Periscopic Sextant & Stowage Box		20	245	4.9				
E-38	Radio Control Set	C-626 / ARC-27	9	250	2.3				
E-39	Control Lock	R-54178 (Secured) (2)	5	254	1.3				
E-40	Seat - Co-Pilot Elect. (Incl. Belt & Harness)		98	264	25.9				

3/ Enter constant used below line.



## CHART A - BASIC WEIGHT CHECK LIST

PAGE 6 OF 32 PAGES		AIRPLANE MODEL	SERIAL NUMBER		AF52-790		DELIVERY DATE		75-51-6		FOR USE IN AN 01-18-40		RECORD OF CHECKING (Enter date)	
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1000	DELIVERY EQUIPMENT	1	2	3	4	5	6	7	8	9
Pilot's Compt. (Sta. 145-326)														
PRESSURIZED CABIN (Cont'd.)														
B-38a	Seat - Co-Pilot (Incl. Belt & Harness) Webber	80	264	21.1	X									
B-39	Survival Kit (Life Raft - Seat Type)	18	264	4.8	O									
B-40	Cushion - Co-Pilot's (Back) ID6574	5	264	1.3	O									
B-41	Cushion & Pad - Co-Pilot (Bottom) 9-47707	5	264	1.3	X									
B-42	Kit - Battle Dressing 4832500	12	267	3.2	O									
B-43	Portable Oxygen Cylinder Type A-1	5	268	1.3	O									
B-43a	Portable Oxygen Cylinder Type VA-1	6	268	1.6	O									
B-44	Catabolt - Co-Pilot's (Charged) T594	25	272	6.9	X									
B-44a	Catabolt - Co-Pilot's Dummy SN244367	6	272	1.7	O									
B-45	Control - Radio Set C-451 / APC-21	5	279	1.4	O									
B-45	Inverter - Spare AN3533-1	24	283	6.8	O									
B-45a	Inverter - Main 3 Phase AN3534-1	33	283	9.3	X									
B-46	Anti-Exposure Suit M1-S-5809A (2)	8	281	2.3	O									
B-47	Antenna Hard Control C-526 / APS-32 A-5 Svs.	1	280	1.2	X									
B-48	Power Unit - Flowmeter 10-1611-2	5	294	1.5	X									
B-50	Amplifier - Compass Signal Type C-1	12	297	3.5	X									
B-51	Control Panel 519577201 A-5 Svs.	11	298	3.3	X									
B-52	1622 Antenna AS-313 / ARN-6	14	300	4.2	O									
B-53	Indicator & Control IP-47 / APC-32 A-5 Svs.	20	302	6.0	X									
B-54	Amplifier AM-924 / AFS-54	12	303	3.6	O									

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50





PAGE 8 OF 32 PAGES		AIRPLANE MODEL	RB-47E	SERIAL NUMBER	AF52-790	DELIVERY DATE		9-15-54	
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	DELIVERY EQUIPMENT		
		Pilot's Compt. (Sta. 145-326)							
		<u>CRANKWAY</u>							
B-60	Air Bottle - Spoiler	AN6025AA-147	7	214		1.5			
B-61	Ladder - Main Entrance	5-32721-507	35	228		8.0			
B-62	Inverter - Three Phase	AN3533-1	24	251		6.0			
B-63	Inverter - Spare 3 Phase	AN3534-1	33	264		8.7			
B-64	Refrigeration Unit	10-819	43	276		11.9			
B-64a	Refrigeration Unit	10-819-507	51	276		14.1			
B-65	Air Bottle - Canopy Jett.	AN6025AA147	7	312		2.2			
B-66	Cover - Canopy F30043 or F30169 (Stowed)		32	330		10.6			
B-67	Cover - ATO Exhaust	F66008 (Stowed)	20	349		7.0			
B-68	Cover - Fwd. Wheel Well	F66094 (Stowed)	17	362		6.2			
B-69	Cover - Aft. Wheel Well	F65970 (Stowed)	19	362		6.9			
B-70	Control Panel	10-1488	10	384		3.8			
B-71	Voltage Regulator	AVR 90	16	400		6.4			
B-72	Control Panel	10-1488	10	411		4.1			
B-73	Voltage Regulator	AVR 90	16	419		6.7			

FOR USE IN AN 01-18-60

RECORD OF CHECKING (Enter date)

CHECK

1	CHART C ENTRY	
2	IN AIRPLANE	
3	CHART C ENTRY	
4	IN AIRPLANE	
5	CHART C ENTRY	
6	IN AIRPLANE	
7	CHART C ENTRY	
8	IN AIRPLANE	

## CHART A - BASIC WEIGHT CHECK LIST

PAGE 9 OF 32 PAGES		AIRPLANE MODEL	SERIAL NUMBER	AF52-790		DELIVERY DATE		9-1-54	
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	CHECK		
							1	2	
		P-1's Compt. (Sta. 145-326)							
		RADAR							
2-74	Ringling Savity	RF-3 / AP	9	154	1.4	0			
2-75	Oxygen Cylinder	2-1 (Charged)	41	170	7.0	X			
2-76	Antenna	AS-2611/AFS-23	109	175	19.1	0			
3-76a	Antenna	AS-1600/AFS-23	100	175	17.5	X			
3-77	Oxygen Cylinder	2-1 (Charged)	11	191	2.1	X			
3-78	Receiver Transmitter	RT-1213/AFS-23	46	198	9.1	X			
3-79	Modulator	MD-152/AFS-23	76	200	15.2	X			
3-80	Blower	BD-10 / AFS-23	3	205	.6	X			
3-81	Blower	BD-15 / AFS-23	3	208	.6	X			
		AFS-23							
2-82	AFS-23	AN/APN-76	7	243	1.7	X			
		In Fuel Tank Door							
2-83	Loop Antenna	AS-313B/ARN-6	14	275	3.9	X			

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50

7-1-54

PAGE 10 OF 32 PAGES			AIRPLANE MODEL	SERIAL NUMBER	AF52-790		DELIVERY DATE		RECORD OF CHECKING (Enter date)		FOR USE IN AN 01-18-40						
COMPARTMENT AND		ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	DELIVERY EQUIPMENT	1	2	3	4	5	6	7	8	9
			Pilot's Compt. (Sta. 145-326)														
			LCR RADAR (WITHOUT PROJECT RELIABLE)														
B-64	Servo Amplifier	AN193 /APS-23			27	224	6.0	0									
B-65	Polar Converter Type A-1	C-34055			107	224	24.0	0									
B-66	Power Supply	PP-352 /AP3-31			20	224	4.5	0									
B-67	Power Supply	Type A-1 C-34056			32	228	7.3	0									
B-68	Power Supply	Type A-1 C-34056			32	229	7.3	0									
B-69	Inverter - Main	AN3534-1			33	274	9.0	0									
B-90	Inverter (Jack & Heintz)	AN3516-1			52	277	14.4	0									
B-90a	Inverter (Royal Elect. Co.)	AN3516-1			59	277	16.3	0									
B-90b	Inverter (Bendix)	AN3516-1			59	277	16.3	0									
B-91	Computer - Tracking	Type B-2 C-34048			165	278	45.9	0									
B-92	Mount - Computer	Type B-1 C-34066			7	278	1.9	0									
B-93	Rectifier - Power Unit	PP-259 /APS-23			32	278	8.9	0									
B-94	Computer - Bomb Release	C-34047			73	279	20.4	0									

Enter constant used below line.

DD FORM 365A  
1 AUG 50

7-1-54

Chart Date - See Sheet 1

FOR USE IN AN 01-18-60									
RECORD OF CHECKING (Enter date)									
<div style="display: flex; justify-content: space-between;"> <div> <div>AGE 11 OF 32 PAGES</div> <div>AIRPLANE MODEL</div> <div>RB-47E</div> </div> <div> <div>SERIAL NUMBER</div> <div>AF52-790</div> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> <div>CHART A - BASIC WEIGHT CHECK LIST</div> <div>DELIVERY DATE</div> <div>9-15-54</div> </div> <div> <div>DELIVERY EQUIPMENT</div> <div></div> </div> </div>									
CHECK									
<div style="display: flex; justify-content: space-between;"> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> </div> <div> <div>CHART C ENTRY</div> <div>IN AIRPLANE</div> <div>CHART C ENTRY</div> <div>IN AIRPLANE</div> <div>CHART C ENTRY</div> <div>IN AIRPLANE</div> <div>CHART C ENTRY</div> <div>IN AIRPLANE</div> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> <div>ITEM NUMBER AND</div> <div>CONFIRMATION</div> </div> <div> <div>ITEMS AND LOCATION</div> <div>(Grouped by Compartment)</div> </div> <div> <div>WEIGHT</div> <div>APM</div> <div>MOMENT</div> <div>1000</div> </div> </div>									
Pilot's Compt. (Sta. 145-126)									
UPPER RADAR (WITHOUT PROJECT RELIABLE)									
B-95	Radio Compass	R-101 / APN-5	36	302	10.9				
B-96	Mount - Radio Compass	MT-274 / APN-6	5	302	1.5				
B-97	Transmitter - Type A-1	C-34056	13	206	4.0				
B-98	Inverter (Jack & Helms)	AN3516-1 (2)	105	310	32.6				
B-98a	Inverter (Royal Elect. Co.)	AN3515-1 (2)	118	310	36.6				
B-99	Keyer - Emergency	KY-65 / APA-25	4	320	1.3				
B-100	Receiver Transmitter	RT-11 / APN-12	10	320	12.8				
LOWER FWD. RADAR (WITH PROJECT RELIABLE)									
B-101	Servo Amplifier	AY-193 / AFS-23	27	224	6.0				
B-102	Power Supply	Type A-1 C-34056	32	244	7.8				
B-103	Power Supply	Type A-1 C-34056	32	257	8.2				
B-104	Inverter - Three Phase	AN-3524-1	33	278	9.2				

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50

RB-47E

WD-10387 Page 54 of 103





7-1-54

Chart Date - See Chart 1

PAGE 13 OF 32 PAGES				AIRPLANE MODEL		SERIAL NUMBER		AP52-790		DELIVERY DATE		RECORD OF CHECKING (Enter date)		FOR USE IN AN 01-12-60	
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	CHECK								
							1	2	3	4	5	6	7	8	
		Pilot's Compt. (Sta. 145-326)													
		UPPER APT RADAR (WITH PROJECT RELIABLE)													
E-112	Receiver Transmitter	RT-315 / APN			299										
E-113	Radio Compass	RT-101B / APN-6		36	300	10.8									
E-114	Mount - Radio Compass	MT-274 / APN-6		5	300	1.5									
E-115	Inverter (Jack & Heintz)	AV3515-1 (2)		105	310	22.5									
E-115a	Inverter (Royal Elect. Co.)	AN3515-1 (2)		118	310	26.6									
E-115b	Inverter	5286227 (2)		120	310	27.2									
E-115	Adapter Keyer	MX-1394 / APC-21		2	310	.6									
E-117	Keyer - Emergency	KY-65A / APA-26		1	320	1.3									
E-118	Receiver Transmitter	RT-11 / APN-12		40	321	12.8									
E-118a	Receiver Transmitter	RT-315 / APN			321										
		FORWARD WHEEL WELL													
E-112	Inverter (Jack & Heintz)	AV3515-1 (2)		105	294	30.9									
E-112a	Inverter (Royal Elect. Co.)	AN3515-1 (2)		114	294	24.7									
E-120	Inverter 10-1501	A-5 SPS.		54	294	15.2									
E-121	Inverter (Jack & Heintz)	AV3515-1		72	294	15.3									
E-121a	Inverter (Royal Elect. Co.)	AV3515-1		59	294	17.2									
E-121b	Inverter	5286227		50	294	17.2									
E-122	Prugging Container & Heater	10-1012-501		6	295	1.8									

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50RB-47E  
WD-10387 Page 56 of 103



Chart Date - See Sheet 1

CHART A - BASIC WEIGHT CHECK LIST				FOR USE IN AN 01-18-40 RECORD OF CHECKING (Enter date)													
PAGE 11 of 32 PAGES		AIRPLANE MODEL	SERIAL NUMBER	CHECK													
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)	WEIGHT	ARM	MOMENT 1000	DELIVERY DATE 9-25-54											
		Fwd. Landing Gear (Sta. 326-425)				1	2	3	4	5	6	7	8	9	10	11	12
C-1		Hydraulic Fluid (19.6 Gal. at 7 lb/Gal.) (Sight Gage Location: Sta. 416)	137	499	68.4												
		(For Items In Cowlway Of This Compartment, See 2-66, B-67, 5-58, B-59, B-70, B-71, B-72, & B-73)															

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50

7-1-54





7-1-54

## CHART A - BASIC WEIGHT CHECK LIST

PAGE 17 OF 32 PAGES		AIRPLANE MODEL	SERIAL NUMBER	AF52-790		DELIVERY DATE		7-1-54		FOR USE IN AN 01-18-40				
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	CHECK		RECORD OF CHECKING (Enter date)					
							1	2	3	4	5	6	7	8
		Camera & Fuel (Sta. 515-742)												
E-9e	Camera	K-22A	(24" Lens Cone)	44	573	25.2								
E-9f	Camera	K-17C	(6" Lens Cone)	29	573	14.6								
E-9g	Camera	K-17C	(12" Lens Cone)	31	573	17.3								
E-9h	Camera	K-17C	(24" Lens Cone)	32	573	20.4								
E-10	Magazine - Type A8B	(Empty)		28	573	16.0								
E-10a	Magazine - Type A9B	(Empty)		31	573	12.0								
E-10b	Magazine - Type A-28	(Empty)		32	573	31.5								
E-10c	Magazine - Type A-18	(Empty)		30	573	34.4								
E-10d	Magazine - Type LA-12	(Empty)		61	573	35.0								
E-11	Adapter Assy. K-38	5-17440		7	573	4.0								
E-11a	Adapter Assy. K-Series	5-17421		3	573	2.9								
E-11b	Adapter Assy. T-11	5-17450-5		5	573	2.9								
E-11c	Adapter Assy. T-11	5-17421		3	573	2.9								
E-12	Adapter Trip Unit K-37	Camera		20	573	11.3								
E-13	Mount Assy. - Camera	5-17421-3		9	574	5.2								
E-13a	Mount Assy. - Camera	5-17421-4		10	574	5.7								
E-14	Adapter Assy. - Camera	5-17421-1		190	577	109.6								
E-15	Adapter Trip Unit K-37	Camera		20	579	11.6								
E-16	Light Detector - Terrain	E-2 YCCS (2)		26	605	15.7								
E-17	Camera	K-17C	(6" Lens Cone) (3)	86	610	32.3								
E-17a	Camera	K-17C	(6" Lens Cone) (3)	86	610	32.3								
E-17b	Camera - Type K-45	(7" Lens Cone) (3)		86	610	32.3								

1/ Enter constant used below line.

DD FORM 365A

1 AUG 50

Chart Date - See sheet 1

RB-17E

WD-10387 Page 60 of 103

7-1-54

RB-47E

WD-10387 Page 61 of 103

DD FORM 365A  
1 AUG 50



7-1-54

RB-47E  
WD-10387 Page 62 of 103

11/ Enter constant used below line.

7-1-54

CHART A - BASIC WEIGHT CHECK LIST

PAGE 20 OF 32 PAGES		AIRPLANE MODEL		SERIAL NUMBER		AF52-790		DELIVERY DATE		9-25-54	
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT		ARM		MOMENT 1000		CHECK	
		Aft. Landing Gear & ATO or ECM (Sta. 742-861)								1 IN AIRPLANE	
		WHEEL WELL								2 CHART C ENTRY	
										3 CHART C ENTRY	
										4 IN AIRPLANE	
										5 CHART C ENTRY	
										6 IN AIRPLANE	
										7 CHART C ENTRY	
										8 IN AIRPLANE	
										9 CHART C ENTRY	
										10 IN AIRPLANE	
										11 CHART C ENTRY	
										12 IN AIRPLANE	
										13 CHART C ENTRY	
										14 IN AIRPLANE	
										15 CHART C ENTRY	
										16 IN AIRPLANE	
										17 CHART C ENTRY	
										18 IN AIRPLANE	
										19 CHART C ENTRY	
										20 IN AIRPLANE	
										21 CHART C ENTRY	
										22 IN AIRPLANE	
										23 CHART C ENTRY	
										24 IN AIRPLANE	
										25 CHART C ENTRY	
										26 IN AIRPLANE	
										27 CHART C ENTRY	
										28 IN AIRPLANE	
										29 CHART C ENTRY	
										30 IN AIRPLANE	
										31 CHART C ENTRY	
										32 IN AIRPLANE	
										33 CHART C ENTRY	
										34 IN AIRPLANE	
										35 CHART C ENTRY	
										36 IN AIRPLANE	
										37 CHART C ENTRY	
										38 IN AIRPLANE	
										39 CHART C ENTRY	
										40 IN AIRPLANE	
										41 CHART C ENTRY	
										42 IN AIRPLANE	
										43 CHART C ENTRY	
										44 IN AIRPLANE	
										45 CHART C ENTRY	
										46 IN AIRPLANE	
										47 CHART C ENTRY	
										48 IN AIRPLANE	
										49 CHART C ENTRY	
										50 IN AIRPLANE	
										51 CHART C ENTRY	
										52 IN AIRPLANE	
										53 CHART C ENTRY	
										54 IN AIRPLANE	
										55 CHART C ENTRY	
										56 IN AIRPLANE	
										57 CHART C ENTRY	
										58 IN AIRPLANE	
										59 CHART C ENTRY	
										60 IN AIRPLANE	
										61 CHART C ENTRY	
										62 IN AIRPLANE	
										63 CHART C ENTRY	
										64 IN AIRPLANE	
										65 CHART C ENTRY	
										66 IN AIRPLANE	
										67 CHART C ENTRY	
										68 IN AIRPLANE	
										69 CHART C ENTRY	
										70 IN AIRPLANE	
										71 CHART C ENTRY	
										72 IN AIRPLANE	
										73 CHART C ENTRY	
										74 IN AIRPLANE	
										75 CHART C ENTRY	
										76 IN AIRPLANE	
										77 CHART C ENTRY	
										78 IN AIRPLANE	
										79 CHART C ENTRY	
										80 IN AIRPLANE	
										81 CHART C ENTRY	
										82 IN AIRPLANE	
										83 CHART C ENTRY	
										84 IN AIRPLANE	
										85 CHART C ENTRY	
										86 IN AIRPLANE	
										87 CHART C ENTRY	
										88 IN AIRPLANE	
										89 CHART C ENTRY	
										90 IN AIRPLANE	
										91 CHART C ENTRY	
										92 IN AIRPLANE	
										93 CHART C ENTRY	
										94 IN AIRPLANE	
										95 CHART C ENTRY	
										96 IN AIRPLANE	
										97 CHART C ENTRY	
										98 IN AIRPLANE	
										99 CHART C ENTRY	
										100 IN AIRPLANE	

Chart Date - See Sheet 1

PAGE 21 OF 32 PAGES			AIRPLANE MODEL		SERIAL NUMBER		DELIVERY DATE		FOR USE IN AN 01-18-66	
COMPARTMENT AND ITEM NUMBER			ITEMS AND LOCATION (Grouped by Compartments)		WEIGHT		ARM		MOMENT 1000	
AF52-790			RB-47E		AF52-790		AF52-790		AF52-790	
Aft. Landing Gear & ATO or ECM (Sta. 742-861)										
ECM										
F-8	Chute Assy. - Chaff	4-3722	(2)		8	742	6.0			
F-9	Stripper Unit - Chaff	AV/ALE	(2)		45	755	34.0			
F-10	Hopper Assy. - Chaff	4-3721	(2)		93	791	73.6			
F-11	ECM Panels - Plain	4-2600	(4)		58	802	46.3			
F-12	Intervalometer - Chaff	TD-93(XA)/ALE-1	(2)		16	836	13.4			
F-13	Battery Type K-1	32587	(2)		146	842	122.9			
F-14	Intervalometer - Chaff	TD-93(XA)/ALE-1	(2)		16	845	13.5			
F-15	Receiver Transmitter	RT-178 / ARC-27			70	852	59.5			

7-1-54

DD FORM 365A  
1 AUG 50

7-1-54

## CHART A - BASIC WEIGHT CHECK LIST

PAGE 23 OF 32 PAGES		AIRPLANE MODEL		SERIAL NUMBER		DELIVERY DATE		RECORD OF CHECKING (Enter date)		CHECK	
COMPARTMENT AND ITEM NUMBER		ITEMS AND LOCATION (Grouped by Compartment)		WEIGHT	ARM	MOMENT 1000	DELIVERY EQUIPMENT	9-15-54		1	2
		Flight Control & Accessory (Sta. 1024-1222)									
H-1	Lock - Main Gear Down	F65679 (Stowed)	(2)	2	1026	2.1	X				
H-2	Jack Pads	F65699 (Stowed)	(4)	6	1026	6.2	X				
H-3	Radar Central	MX-1264 / APT-32A	A-5 Sys.	95	1031	97.9	X				
H-4	Antenna	AT-183 / AP	(2)	5	1032	5.2	O				
H-4a	Antenna	AT-184 / AP	(2)	4	1032	4.1	O				
H-4b	Antenna	AT-185 / AP	(2)	4	1032	4.1	O				
H-5	Inverter	FL5-3	A-5 Sys.	56	1038	58.1	X				
H-6	Computer - Tail	7028E7661	A-5 Sys.	86	1040	89.4	X				
H-7	Gyro Drive Unit	7026E8461	A-5 Sys.	54	1044	56.4	X				
H-8	Detector - Photo Flash	MIL-D-7674	UCGS	9	1056	9.5	X				
H-9	Voltage Regulator	GH-96 / APT-32	A-5 Sys.	10	1056	10.6	X				
H-10	Ejector Assy. - Photo	- Flash Cartridge (4)		165	1058	192.0	X				
H-11	Detector - Image Velocity	A-3	UCGS	8	1061	8.5	O				
H-12	Detector - Terrain Light	B-2	UCGS	13	1062	13.8	O				
H-13	Cover Assy. - F30170 or F30127	(Stowed)		9	1067	9.6	X				
H-14	Junction Box	519E39461	A-5 Sys.	26	1067	27.7	X				
H-15	Inverter - Frequency	4113	A-5 Sys.	14	1067	14.9	O				
H-16	Locks - Outrigger	F65701 (Stowed)	(2)	24	1070	25.7	X				
H-17	Transmitter	T-116 / APT-5A	(2)	116	1075	124.7	O				
H-18	Rectifier Power Unit	PP-104 / APT-5	(2)	81	1075	87.1	O				
H-19	Cover Assy. - F30172 or F66218	(Stowed)		17	1075	18.3	X				
H-20	Receiver	R-122 / APT-12		7	1076	7.5	O				

RB-478

WD-10387 Page 66 of 103

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50

Chart Date - See Sheet 1



Chart Date - See Sheet 1

FOR USE IN AM 01-18-60										
RECORD OF CHECKING (Enter date)										
<div style="display: flex; justify-content: space-between;"> <div> <div>7-1-54</div> <div>DELIVERY DATE</div> </div> <div> <div>9-15-54</div> <div>DELIVERY EQUIPMENT</div> </div> </div>										
PAGE 24 OF 32 PAGES			AIRPLANE MODEL RB-47E		SERIAL NUMBER AP52-790		CHECK			
COMPARMENT AND ITEM NUMBER			ITEMS AND LOCATION (Grouped by Compartments)		WEIGHT	ARM	MOMENT 1000	1 2 3 4 5 6 7 8		
			Flight Control & Accessory (Sta. 1024-1222)					IN AIRPLANE	CHART C ENTRY	
H-21	Power Supply	PP-298 / ARC-21X	26	1076	28.0	0		IN AIRPLANE	CHART C ENTRY	
H-22	Dynamotor	DY-66 / ARM-14	16	1076	17.2	0		IN AIRPLANE	CHART C ENTRY	
H-23	Receiver	R-540 / ARM-14C	30	1076	32.3	0		IN AIRPLANE	CHART C ENTRY	
H-24	Receiver Transmitter	RT-82 / APX-6	39	1082	42.2	X		IN AIRPLANE	CHART C ENTRY	
H-24a	Receiver Transmitter	RT-279 / APX	45	1082	43.7	0		IN AIRPLANE	CHART C ENTRY	
H-25	Junction Box - Ejector	Type C-2	4	1088	4.4	X		IN AIRPLANE	CHART C ENTRY	
H-26	Servo Motor - Elevator Tab	10-1075-9 AFCE	5	1093	5.5	X		IN AIRPLANE	CHART C ENTRY	
H-27	Receiver Transmitter	RT-128 / ARC-21	132	1104	14.5.7	0		IN AIRPLANE	CHART C ENTRY	
H-28	Antenna	AT-183 / AP (2)	5	1104	5.5	0		IN AIRPLANE	CHART C ENTRY	
H-28a	Antenna	AT-184 / AP (2)	4	1104	4.4	0		IN AIRPLANE	CHART C ENTRY	
H-28b	Antenna	AT-185 / AP (2)	4	1105	4.4	0		IN AIRPLANE	CHART C ENTRY	
H-29	Amplifier - Directional Danner	10-486-2	9	1105	9.9	X		IN AIRPLANE	CHART C ENTRY	
H-30	Receiver - Transmitter	RT-178 / APC-27	70	1105	77.4	X		IN AIRPLANE	CHART C ENTRY	
H-31	Antenna	AT-487 / ALQ-3	3	1105	3.3	0		IN AIRPLANE	CHART C ENTRY	
AN / ALQ-3										
H-32	Cooler	HD-177 / ALQ-3	25	1106	28.8	0				
H-33	Analyzer	RF-57 / ALQ-3	31	1106	34.3	0				
H-34	Power Supply	PP-1062 / ALQ-3	60	1106	66.4	0				
H-35	Receiver	R-594 / ALQ-3	48	1106	53.1	0				
H-36	Transmitter	T-444 / ALQ-3	100	1106	110.6	0				

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50

7-1-54

RB-47E

WD-10387 Page 67 of 103



CHART A - BASIC WEIGHT CHECK LIST											
PAGE 26 OF 32 PAGES		AIRPLANE MODEL	RB-47E		SERIAL NUMBER		AF52-790		DELIVERY DATE		
COMPARTMENT	ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartment)			WEIGHT	ARM	MOMENT 1000	DELIVERY EQUIPMENT			
		Flight Control & Accessory (Sta. 102L-1222)									
H-52		Drive & Brkt. Assy.	10-1075-114	AFCE	5	1128	5.6	X			
H-53		Control - Indicator	G-1222 / APT-16A (2)		9	1130	10.2	O			
H-54		Antenna	AS-215 / ARN-12		3	1132	3.4	X			
H-55		Resolver Input Unit	9019878G1	A-5 S's.	27	1146	30.9	X			
H-56		Resolver Input Unit	9019878G1		27	1151	31.1	O			
H-57		Amplifier - Directional Dumper	10-106-2		9	1151	10.4	O			
H-58		Ballast Block & Cover	5-51503-501	(4)	328	1151	377.5	O			
H-59		Lift Switch - Elevator	10-1075-16	AFCE	10	1164	11.6	X			
H-60		Parachute Assy. - Approach	10-1622		33	1187	39.2	X			
H-61		Brake Parachute	10-1037 or 10-2256		87	1189	103.4	X			
H-62		Elevator Servo Motor	10-1075-21	AFCE	13	1216	15.8	X			
H-63		Eng. & Brkt. Assy.	10-1075-13	AFCE	6	1216	7.3	X			
H-64		Hydraulic Fluid (2.4 Gal. at 7 lb./Gal.)			17	1195	20.3	X			

7-1-54

RB-47E

WD-10387 Page 69 of 103

DD FORM 365A  
1 AUG 50

Chart Date - See Sheet 1

PAGE 27 OF 32 PAGES			AIRPLANE MODEL		SERIAL NUMBER		AP52-790		DELIVERY DATE		FOR USE IN AN 01-18-40		
CHART A - BASIC WEIGHT CHECK LIST			R3-47E		R3-47E		R3-47E		R3-47E		R3-47E		
COMPARTMENT AND ITEM NUMBER	ITEMS AND LOCATION (Grouped by Compartments)	WEIGHT	ARM	MOMENT 1000	DELIVERY DATE	CHECK							
					1	2	3	4	5	6	7	8	
					IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	IN AIRPLANE	
					CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	CHART C ENTRY	
I-1	Junction Box	8	1229	9.8	X								
I-2	Ammo. Box & Booster	52	1234	54.2	X								
I-3	Servo Amplifier	9	1237	11.1	X								
I-4	Head - Radio Frequency	29	1238	35.9	X								
I-5	Air Bottle	4	1243	5.0	X								
I-6	Blower - R.F. Head	4	1244	5.0	X								
I-7	Modulator - Radar	26	1252	45.1	X								
I-8	Amplidyne	63	1253	78.9	X								
I-9	Control Box	7	1254	8.8	X								
I-10	Charger - Gun	28	1269	35.5	X								
I-11	Ammo. Chute	17	1270	21.6	X								
I-12	Adapter - Chute	4	1282	5.1	X								
I-13	Feeder Mechanism	39	1285	50.1	X								
I-14	Antenna	54	1287	62.1	X								
I-15	Cannon - 20mm	129	1292	257.1	X								
I-16	Radome - Ellipsoidal	14	1292	18.1	X								
I-17	Total Turret & Fuselage Assy. - Gen. Elect. (Less Items I-1 Thru I-16)	189	1259	620.5	X								
I-17a	Total Turret & Fuselage Assy. - Crosley (Less Items I-1 Thru I-16)	534	1249	577.6	0								

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50

7-1-54

RE-17E

WD-10387 Page 70 of 103

Chart Date - See Sheet 1

[illegible]

**✓**

DD FORM 365A  
1 AUG 50





Chart Date - See Sheet 1

CHART A - BASIC WEIGHT CHECK LIST				FOR USE IN AN 01-18-60	
RECORD OF CHECKING (Enter date)				RECORD OF CHECKING (Enter date)	
DELIVERY DATE				DELIVERY DATE	
9-15-54				9-15-54	
SERIAL NUMBER				CHECK	
AF52-790				1 2 3 4 5 6 7 8	
ITEMS AND LOCATION (Grouped by Compartment)				IN AIRPLANE	
Macallen - Inboard				CHART C ENTRY	
1 Starter - Generator (4)				IN AIRPLANE	
2 Engine (J-47-GE-25) (4)				CHART C ENTRY	
(Weight stamped on engine name plate or obtained by weighing engines removed and installed must be recorded and changes corrected on Chart "C".)				IN AIRPLANE	
Weight				CHART C ENTRY	
ARM				IN AIRPLANE	
MOMENT				CHART C ENTRY	
1000				IN AIRPLANE	
1/				CHART C ENTRY	
128.4				IN AIRPLANE	
431				CHART C ENTRY	
484				IN AIRPLANE	
(APPROX.)				CHART C ENTRY	

7-1-54

RB-47E

WD-10387 Page 73 of 103

1/ Enter constant used below line.

DD FORM 365A

7-1-54

WD-10387 Page 74 of 103

1/ Enter constant used below line.

DD FORM 365A  
1 AUG 50





Chart Date - 20 April 1954

## CHART E - LOADING DATA

The loading data on the following sheets provide a means of computing a correct and accurate loading for the RB-47E Airplane. A brief description of each chart follows:

### 1-FUEL MANAGEMENT

Correct fuel loading and usage are both necessary in order that "Center of Gravity Limits" will not be exceeded for either take-off or flight conditions. The Fuel Management section consists of the following:

- |   |                     |
|---|---------------------|
| (a) Fuel Management Introduction                    | - Sheet 3           |
| (b) Fuel Consumption Procedure                      | - Sheet 4           |
| (c) Fuel Loading chart                              | - Sheets 5 and 6    |
| (d) Fuel Weight - Volume - Density Conversion Table | - Sheets 7, 8 and 9 |

### 2-LOADING TABLES

Weight and Moment /1000 values are tabulated for the variable load items for entry on Weight and Balance Clearance Form F.

- |                              |                       |
|------------------------------|-----------------------|
| (a) Fuel Moment Tables       | - Sheet 10, 11 and 12 |
| (b) Oil Table                | - Sheet 13            |
| (c) Water Injection Table    | - Sheet 13            |
| (d) Crew Table               | - Sheet 13            |
| (e) Ammunition Table         | - Sheet 14            |
| (f) Flash Bomb Loading Table | - Sheet 14            |
| (g) Chaff Table              | - Sheet 14            |
| (h) ATO Rocket Tables        | - Sheet 15            |
| (i) Cargo Loading Tables     | - Sheet 16            |

### 3-COMPARTMENT STRUCTURAL CAPACITY

The table on Sheet 16 gives concentrated and maximum compartment capacities by individual compartments.

### 4-CENTER OF GRAVITY GRAPH

The Graph on Sheet 17 shows the complete Center of Gravity Capabilities of the airplane.

### 5-CENTER OF GRAVITY MOMENT TABLES

Total weight and moment/1000 from Form F may be checked on tables, Sheet 18 through 25, to determine airplane center of gravity and ascertain whether or not it is within the prescribed limits.

### 6-MISCELLANEOUS DATA

Hydraulic fluid, trapped and unusable fuel data is shown on Sheet 26.

On Sheet 26 is a table of miscellaneous over-all outside dimensions.

# AIRPLANE DIAGRAM

NOTE INCHES FROM REFERENCE DATUM IDENTICAL TO STA NUMBERS

EXTERNAL WING TANK

## NOTES

ADJUSTING GEAR RETRACTION  
MOMENT CHANGE 1000 312

## LEVELING DEVICE

LEVEL PLATE LOCATED ON LOWER  
LONGERON IN CRANeway BETWEEN  
BODY FRAMES 347.5 TO 406.5

## JIG POINT

USE NOSE JACK POINT  
AT BODY STA 273.3

(I) TURRET

(H) FLIGHT CONTROL & ACCESSORY

(G) AFT FUEL

(F) AFT LANDING  
GEAR & ATO

(E) CAMERA  
& FUEL

(D) FLASH BOMB  
& FUEL

(C) FWD LANDING  
GEAR

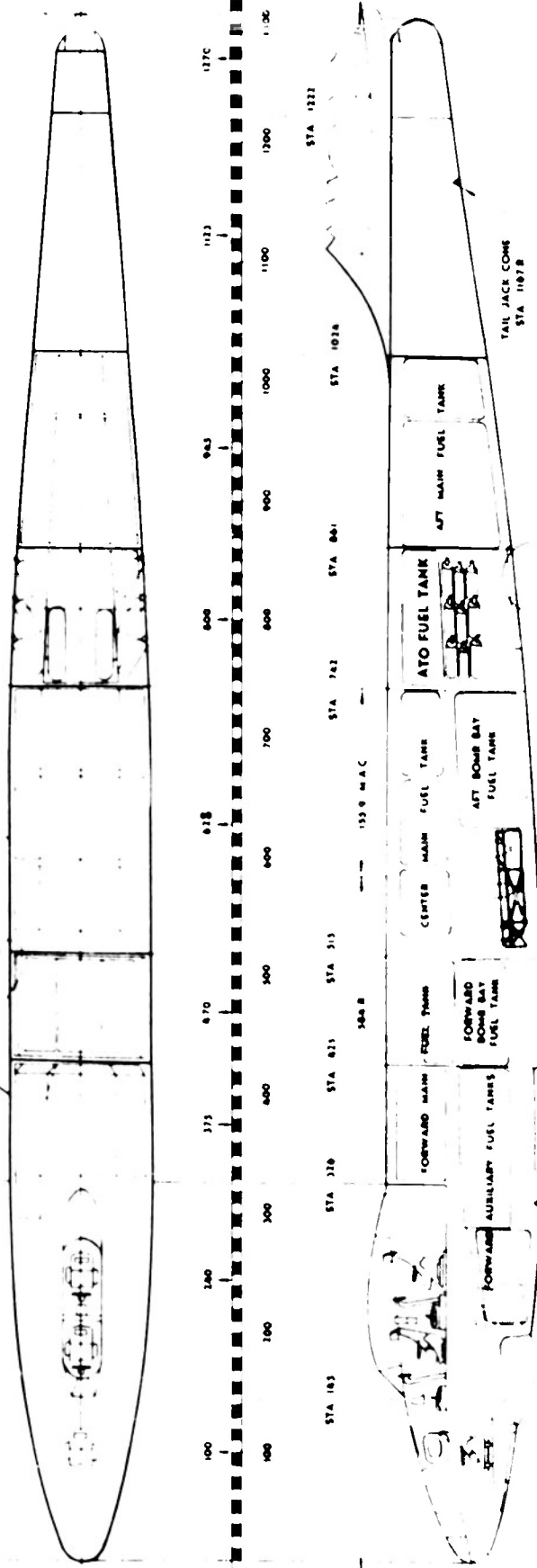
(B) PILOTS

(A) NOSE

OUTER JACK  
CONE  
BODY STA 640

INNER JACK  
CONE  
BODY STA 344.8

WATER INJ TANK



GROUND LINE

NOSE JACK CONE  
STA 273.3

40.7" APPROX  
833.5" APPROX

## FUEL MANAGEMENT

Controlled fuel distribution is required to keep the RB-47E properly balanced. The fuel loading and consumption procedures in these charts are designed to keep the airplane within its center of gravity range regardless of the density of fuel used, while requiring a minimum of the pilot's attention.

The Fuel Management Section consists of one Fuel-Density-Weight Conversion Table, one Fuel Loading Chart and one Consumption Procedure Chart. The Loading Chart provides a loading sequence for "Operating Weight" (Form F ref. 5) less ammunition, Centers of Gravity from 8% to 18% MAC. The Consumption Procedure provides the same usage for all Operating Weight Centers of Gravity covered in this chart.

The Fuel Loading Chart is so arranged that it is good for Operating Weight Centers of Gravity for 8 to 18% MAC and covers 6.0, 6.5 and 6.8  $\gamma$  Gallon fuel and is also applicable with or without the Flash-Bomb load. The importance of strict adherence to the given loading sequence cannot be over emphasized inasmuch as these procedures are also applicable for flight refueling.

The Consumption Procedure Chart indicates how the fuel is used and transferred from the various tanks. The use and accuracy of this chart is directly dependant on prior fuel loading in accordance with the Fuel Loading Chart.

### NOTE

The Weight and Moment of the Ammunition must be deducted from the "Operating Weight" prior to using the Fuel Loading Charts.

If Loading is made using the old type Form "F", in lieu of "DD Form 365F," the "Minimum Landing Weight" (Form F ref 4) center of gravity and weight should be used.

## RB-47E FUEL CONSUMPTION PROCEDURE

THIS CONSUMPTION PROCEDURE IS VALID FOR ALL AIRPLANES WITH OPERATING WEIGHT CENTERS OF GRAVITY (LESS AMMUNITION) FROM 8% TO 18% MAC (WHEELS DOWN).

(DETAILED OPERATING INSTRUCTIONS ARE CONTAINED IN T.O. NO. 1B-47(R) E-1)

### A. AUXILIARY FUEL

If the following auxiliary tanks contain fuel, transfer each in the following consecutive order. Start transfer at beginning of flight or immediately after refueling.

1. Both External Wing Tanks - Transfer to all mains or direct feed to engines.
2. A. T. O. Tank - Transfer to all mains or direct feed to engines.
3. Forward Bomb Bay Tank - Transfer to all mains or direct feed to engines.
4. Aft Bomb Bay Tank - Transfer to all mains or direct feed to engines.
5. Forward Auxiliary Tank - Transfer to Forward and Center mains only.

### B. MAIN FUEL

Equalize fuel in Forward and Center Main Tanks until the Aft Main Tank contains 3,000 pounds more fuel than each of the other two Main Tanks. Then use fuel equally from the three Main Tanks.

▲ WYPCSAVE ONLY WHEN THE 240 SAVGTON

( WHEELS DOWN )

(SEE FORM "F", REF. 2) = 8.5 TO 12.0 MWC

# OPERATING WEIGHT CENTER OF GRAVITY (LESS AMMUNITION)

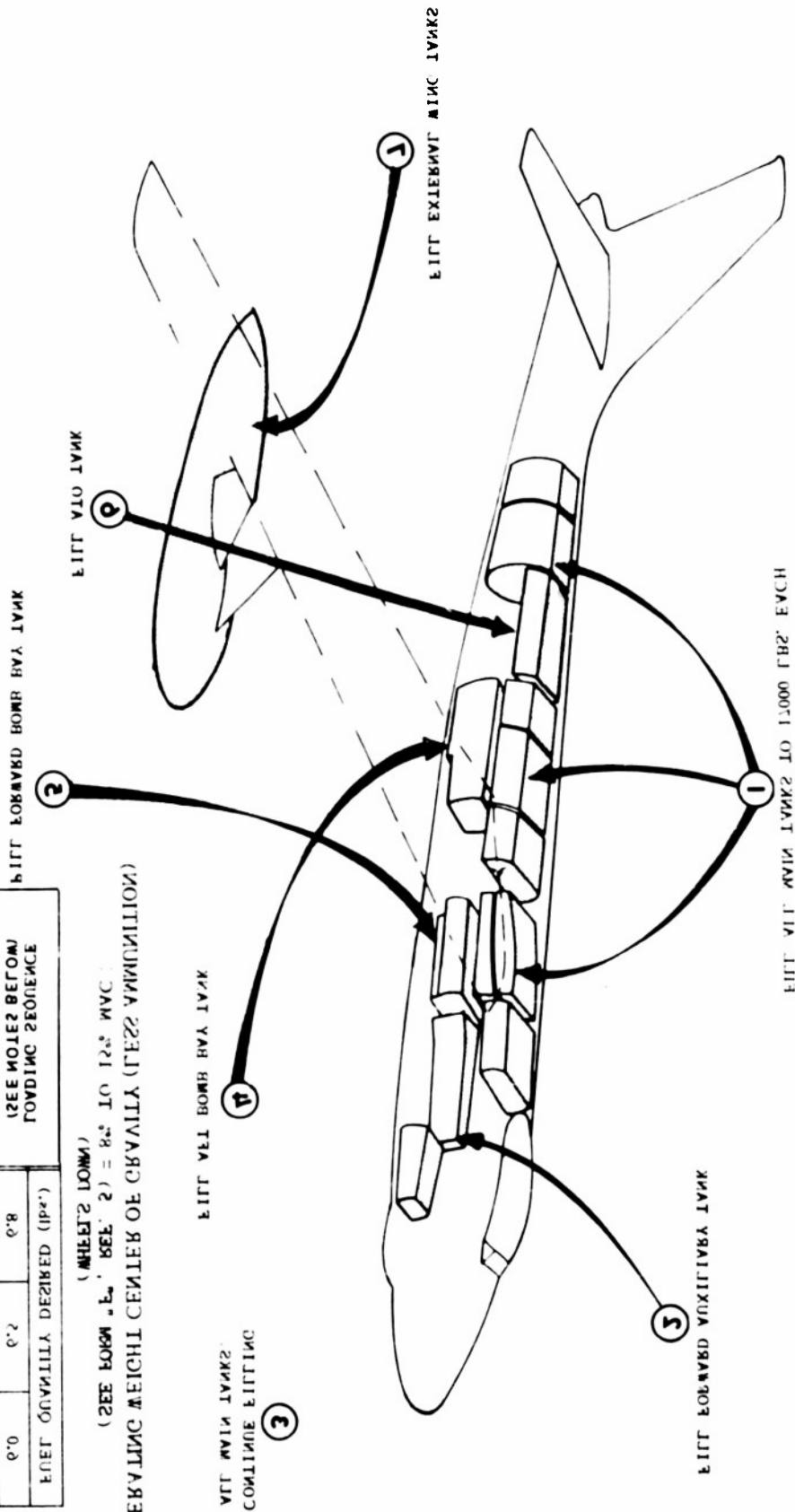
CROSSING LOADS CAN RESULT IN THE SAME DISTRI-  
BUTION OF TOTAL FUEL BUT NEED NOT FOLLOW ANY  
PARTICULAR LOADING SEQUENCE.

## SEQUENCE 2A ZHONG

NOTE: IN-LIGHT REFLECTING MUST FOLLOW THE LOADING

Chart Data-See Sheet 1  
Model RB-47E  
Sheet 2 of 25  
Chart E

04-81-10HA



FOR OPERATING HEIGHT CENTER OF GRAVITY FROM 8.5 TO 12.5 MNC (SEE NOTE ON PG. 3)

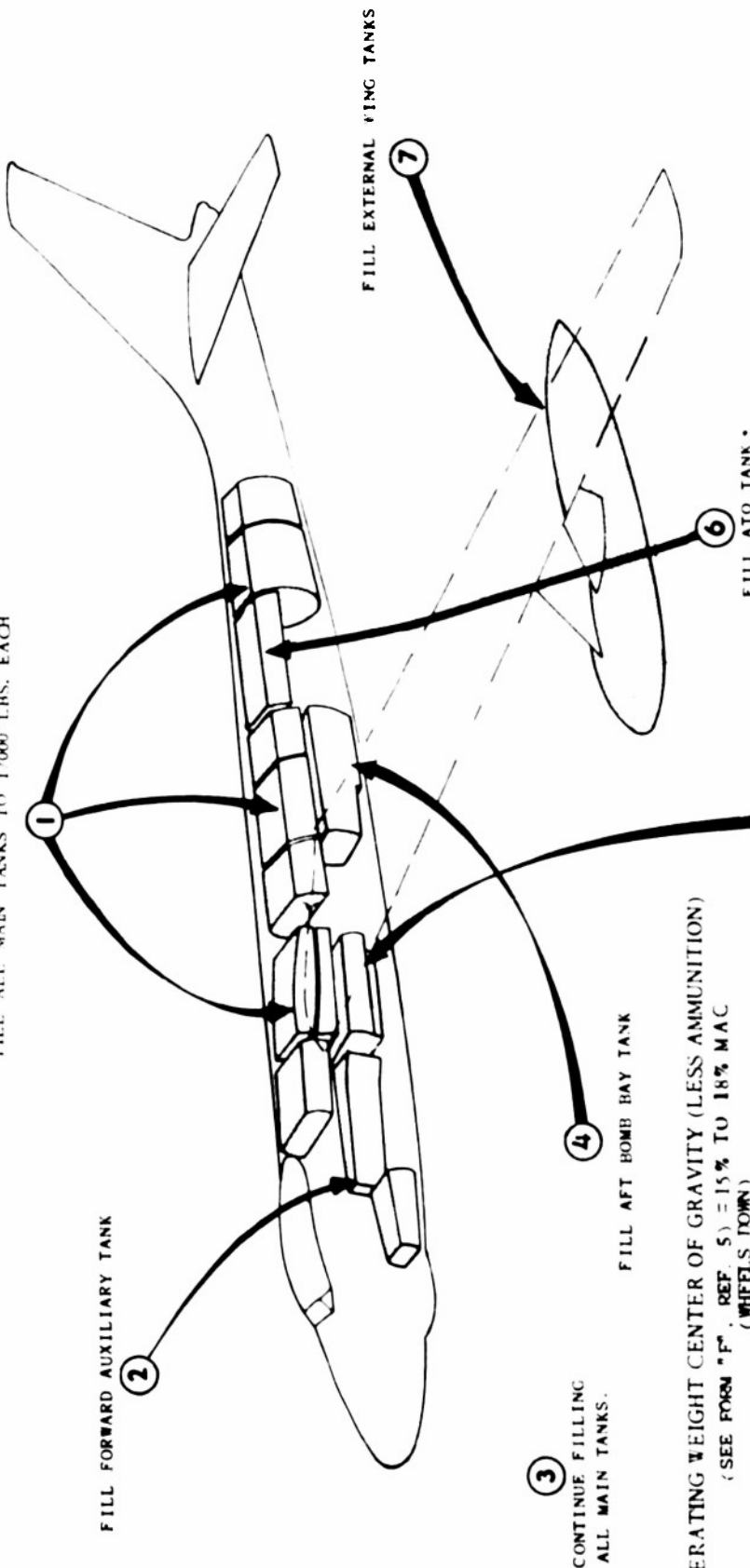
## FUEL LOADING CHART



# FUEL LOADING CHART

FOR OPERATING WEIGHT CENTER OF GRAVITY FROM 15% TO 18% MAC (SEE NOTE ON PG. 3)

FILL ALL MAIN TANKS TO 17000 LBS. EACH



OPERATING WEIGHT CENTER OF GRAVITY (LESS AMMUNITION)  
(SEE FORM "F", REF. 5) = 15% TO 18% MAC  
(WHIPPLS DOWN)

FUEL QUANTITY DESIRED (lbs.)		LOADING SEQUENCE (SEE NOTES BELOW)	
6.0	6.5	6.8	
51,000	51,000	51,000	1
57,030	57,533	57,834	2
61,254	66,360	69,421	3
75,474	81,765	85,537	4
82,494	89,370	93,493	5
90,054	97,360	102,061	6
85,770	92,919	97,206	7
106,570	115,120	120,245	8
105,846	114,662	119,258	9

▲ APPLICABLE ONLY WHEN THE 546 GALLON  
ATO TANK IS INSTALLED

RB-47E  
WD-10387  
Page 82 of 103

Chart E  
Sheet 6 of 26  
Model RB-47E  
Chart Date-See Sheet 1

• FOR AIRPLANES WITH THE 1260 GALLON ATO TANK.  
WHEN FILLING ALL TANKS FOR A MAXIMUM  
FUEL LOAD STEPS (1 THRU 9), THE AFT  
CENTER OF GRAVITY LIMIT WILL BE EXCEEDED  
IF THE ATO TANK IS FILLED BEYOND 4,000  
POUNDS OF FUEL.

NOTE: IN-FLIGHT REFUELING MUST FOLLOW THE LOADING  
SEQUENCE AS SHOWN.  
GROUND LOADINGS MUST RESULT IN THE SAME DISTRI-  
BUTION OF TOTAL FUEL BUT NEED NOT FOLLOW ANY  
PARTICULAR LOADING SEQUENCE.

AN01-18-40

## FUEL VOLUME-DENSITY-WEIGHT CONVERSION TABLE

FUEL VOLUME GALLONS	FUEL DENSITIES IN POUNDS PER GALLON										
	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
	FUEL WEIGHT IN POUNDS										
100	600	610	620	630	640	650	660	670	680	690	700
200	1200	1220	1240	1260	1280	1300	1320	1340	1350	1380	1400
300	1800	1830	1860	1890	1920	1950	1980	2010	2040	2070	2100
400	2400	2440	2480	2520	2560	2600	2640	2680	2720	2760	2800
500	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500
600	3600	3660	3720	3780	3840	3900	3960	4020	4080	4140	4200
700	4200	4270	4340	4410	4480	4550	4620	4690	4760	4830	4900
800	4800	4880	4950	5040	5120	5200	5280	5350	5440	5520	5600
900	5400	5490	5580	5670	5750	5850	5940	6030	6120	6210	6300
1000	6000	6100	6200	6300	6400	6500	6600	6700	6800	6900	7000
1100	6600	6710	6820	6930	7040	7150	7260	7370	7480	7590	7700
1200	7200	7320	7440	7560	7680	7800	7920	8040	8150	8280	8400
1300	7800	7930	8050	8190	8320	8450	8580	8710	8840	8970	9100
1400	8400	8540	8680	8820	8950	9100	9240	9380	9520	9660	9800
1500	9000	9150	9300	9450	9600	9750	9900	10050	10200	10350	10500
1600	9600	9760	9920	10080	10240	10400	10560	10720	10880	11040	11200
1700	10200	10370	10540	10710	10880	11050	11220	11390	11560	11730	11900
1800	10800	10980	11150	11340	11520	11700	11880	12060	12240	12420	12600
1900	11400	11590	11780	11970	12160	12350	12540	12730	12920	13110	13300
2000	12000	12200	12400	12600	12800	13000	13200	13400	13600	13800	14000
2100	12600	12810	13020	13230	13440	13650	13860	14070	14280	14490	14700
2200	13200	13420	13640	13850	14060	14280	14500	14740	14960	15180	15400
2300	13800	14030	14250	14490	14720	14950	15180	15410	15640	15870	16100
2400	14400	14640	14880	15120	15350	15600	15840	16080	16320	16560	16800
2500	15000	15250	15500	15750	16000	16250	16500	16750	17000	17250	17500
2600	15600	15860	16120	16380	16640	16900	17160	17420	17680	17940	18200
2700	16200	16470	16740	17010	17280	17550	17820	18090	18360	18630	18900
2800	16800	17080	17360	17640	17920	18200	18480	18760	19040	19320	19600
2900	17400	17690	17980	18270	18560	18850	19140	19430	19720	20010	20300
3000	18000	18300	18600	18900	19200	19500	19800	20100	20400	20700	21000
3100	18600	18910	19220	19530	19840	20150	20460	20770	21080	21390	21700
3200	19200	19520	19840	20160	20480	20800	21120	21440	21760	22080	22400
3300	19800	20130	20460	20790	21120	21450	21780	22110	22440	22770	23100
3400	20400	20740	21080	21420	21750	22100	22440	22780	23120	23460	23800
3500	21000	21350	21700	22050	22400	22750	23100	23450	23800	24150	24500
3600	21600	21960	22320	22680	23040	23400	23750	24120	24480	24840	25200
3700	22200	22570	22940	23310	23680	24050	24420	24790	25150	25530	25900
3800	22800	23180	23550	23930	24320	24700	25080	25460	25840	26220	26600
3900	23400	23790	24180	24570	24960	25350	25740	26130	26520	26910	27300
4000	24000	24400	24800	25200	25600	26000	26400	26800	27200	27600	28000
4100	24600	25010	25420	25830	26240	26650	27060	27470	27880	28290	28700
4200	25200	25620	26040	26450	26880	27300	27720	28140	28560	28980	29400
4300	25800	26230	26660	27090	27520	27950	28380	28810	29240	29670	30100
4400	26400	26840	27280	27720	28150	28590	29040	29480	29920	30360	30800
4500	27000	27450	27900	28350	28800	29250	29700	30150	30600	31050	31500
4600	27600	28060	28520	28980	29440	29900	30360	30820	31280	31740	32200
4700	28200	28670	29140	29610	30080	30550	31020	31490	31950	32430	32900
4800	28800	29280	29760	30240	30720	31200	31680	32150	32640	33120	33600
4900	29400	29890	30380	30870	31350	31850	32340	32830	33320	33810	34300
5000	30000	30500	31000	31500	32000	32500	33000	33500	34000	34500	35000
5100	30600	31110	31620	32130	32640	33150	33660	34170	34680	35190	35700
5200	31200	31720	32240	32750	33280	33800	34320	34840	35360	35880	36400
5300	31800	32330	32850	33390	33920	34450	34980	35510	36040	36570	37100
5400	32400	32940	33480	34020	34550	35100	35640	36180	36720	37250	37800
5500	33000	33550	34100	34650	35200	35750	36300	36850	37400	37950	38500
5600	33600	34150	34720	35280	35840	36400	36960	37520	38080	38640	39200
5700	34200	34770	35340	35910	36480	37050	37620	38190	38750	39330	39900
5800	34800	35380	35950	36540	37120	37700	38280	38860	39440	40020	40600
5900	35400	35990	36580	37170	37780	38350	38940	39530	40120	40710	41300
6000	36000	36600	37200	37800	38400	39000	39600	40200	40800	41400	42000

## FUEL VOLUME-DENSITY-WEIGHT CONVERSION TABLE

FUEL VOLUME GALLONS	FUEL DENSITIES IN POUNDS PER GALLON										
	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
	FUEL WEIGHT IN POUNDS										
6100	36600	37210	37820	38430	39040	39650	40260	40870	41480	42090	42700
6200	37200	37820	38440	39050	39660	40270	40880	41490	42100	42710	43320
6300	37800	38430	39060	39690	40320	40950	41580	42210	42840	43470	44100
6400	38400	39040	39680	40320	40960	41600	42240	42880	43520	44160	44800
6500	39000	39650	40300	40950	41600	42250	42900	43550	44200	44850	45500
6600	39600	40280	40920	41580	42240	42900	43560	44220	44880	45540	46200
6700	40200	40870	41540	42210	42880	43550	44220	44890	45560	46230	46900
6800	40800	41480	42160	42840	43520	44200	44880	45560	46240	46920	47600
6900	41400	42090	42780	43470	44150	44850	45540	46230	46920	47610	48300
7000	42000	42700	43400	44100	44800	45500	46200	46900	47600	48300	49000
7100	42600	43310	44020	44730	45440	46150	46860	47570	48280	48990	49700
7200	43200	43920	44640	45360	46080	46800	47520	48240	48960	49680	50400
7300	43800	44530	45260	45990	46720	47450	48180	48910	49640	50370	51100
7400	44400	45140	45880	46620	47360	48100	48840	49580	50320	51060	51800
7500	45000	45750	46500	47250	48000	48750	49500	50250	51000	51750	52500
7600	45600	46360	47120	47880	48640	49400	50160	50920	51680	52440	53200
7700	46200	46970	47740	48510	49280	50050	50820	51590	52360	53130	53900
7800	46800	47580	48350	49140	49920	50700	51480	52260	53040	53820	54600
7900	47400	48190	48980	49770	50560	51350	52140	52930	53720	54510	55300
8000	48000	48800	49600	50400	51200	52000	52800	53600	54400	55200	56000
8100	48600	49410	50220	51030	51840	52650	53460	54270	55080	55890	56700
8200	49200	50020	50840	51660	52480	53300	54120	54940	55760	56580	57400
8300	49800	50630	51460	52290	53120	53950	54780	55610	56440	57270	58100
8400	50400	51240	52080	52920	53760	54600	55440	56280	57120	57960	58800
8500	51000	51850	52700	53550	54400	55250	56100	56950	57800	58650	59500
8600	51600	52460	53320	54180	55040	55900	56760	57620	58480	59340	60200
8700	52200	53070	53940	54810	55680	56550	57420	58290	59160	60030	60900
8800	52800	53680	54550	55420	56300	57170	58040	58910	59780	60650	61520
8900	53400	54290	55180	56070	56960	57850	58740	59630	60520	61410	62300
9000	54000	54900	55800	56700	57600	58500	59400	60300	61200	62100	63000
9100	54600	55510	56420	57330	58240	59150	60060	60970	61880	62790	63700
9200	55200	56120	57040	57960	58880	59800	60720	61640	62560	63480	64400
9300	55800	56730	57660	58590	59520	60450	61380	62310	63240	64170	65100
9400	56400	57340	58280	59220	60160	61100	62040	62980	63920	64860	65800
9500	57000	57950	58900	59850	60800	61750	62700	63650	64600	65550	66500
9600	57600	58560	59520	60480	61440	62400	63360	64320	65280	66240	67200
9700	58200	59170	60140	61110	62080	63050	64020	64990	65960	66930	67900
9800	58800	59780	60750	61740	62720	63700	64680	65660	66640	67620	68600
9900	59400	60390	61380	62370	63360	64350	65340	66330	67320	68310	69300
10000	60000	61000	62000	63000	64000	65000	66000	67000	68000	69000	70000
10100	60600	61610	62620	63630	64640	65650	66660	67670	68680	69690	70700
10200	61200	62220	63240	64260	65280	66300	67320	68340	69360	70380	71400
10300	61800	62830	63860	64890	65920	66950	67980	69010	70040	71070	72100
10400	62400	63440	64480	65520	66560	67600	68640	69680	70720	71760	72800
10500	63000	64050	65100	66150	67200	68250	69300	70350	71400	72450	73500
10600	63600	64660	65720	66780	67840	68900	69960	71020	72080	73140	74200
10700	64200	65270	66340	67410	68480	69550	70620	71690	72760	73830	74900
10800	64800	65880	66960	68040	69120	70200	71280	72360	73440	74520	75600
10900	65400	66490	67580	68670	69750	70850	71940	73030	74120	75210	76300
11000	66000	67100	68200	69300	70400	71500	72600	73700	74800	75900	77000
11100	66600	67710	68820	69930	71040	72150	73260	74370	75480	76590	77700
11200	67200	68320	69440	70560	71680	72800	73920	75040	76160	77280	78400
11300	67800	68930	70050	71190	72320	73450	74580	75710	76840	77970	79100
11400	68400	69540	70680	71820	72960	74100	75240	76380	77520	78660	79800
11500	69000	70150	71300	72450	73600	74750	75900	77050	78200	79350	80500
11600	69600	70760	71920	73080	74240	75400	76560	77720	78880	80040	81200
11700	70200	71370	72540	73710	74880	76050	77220	78390	79560	80730	81900
11800	70800	71980	73160	74340	75520	76700	77880	79060	80240	81420	82600
11900	71400	72590	73780	74970	76160	77350	78540	79730	80920	82110	83300
12000	72000	73200	74400	75600	76800	78000	79200	80400	81600	82800	84000

## FUEL VOLUME-DENSITY-WEIGHT CONVERSION TABLE

FUEL VOLUME GALLONS	FUEL DENSITIES IN POUNDS PER GALLON										
	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
	FUEL WEIGHT IN POUNDS										
12100	72600	73810	75020	76230	77440	78650	79860	81070	82280	83490	84700
12200	73200	74420	75630	76840	78050	79260	80470	81680	82890	84100	85300
12300	73800	75030	76260	77490	78720	79950	81180	82410	83640	84870	86100
12400	74400	75640	76880	78120	79350	80590	81840	83080	84320	85560	86800
12500	75000	76250	77500	78750	80000	81250	82500	83750	85000	86250	87500
12600	75600	76860	78120	79380	80640	81900	83160	84420	85680	86940	88200
12700	76200	77470	78740	80010	81280	82550	83820	85090	86360	87630	88900
12800	76800	78080	79350	80640	81920	83200	84480	85760	87040	88320	89600
12900	77400	78690	79980	81270	82560	83850	85140	86430	87720	89010	90300
13000	78000	79300	80600	81900	83200	84500	85800	87100	88400	89700	91000
13100	78600	79910	81220	82530	83840	85150	86460	87770	89080	90390	91700
13200	79200	80520	81840	83150	84460	85770	87080	88390	89700	91010	92320
13300	79800	81130	82460	83790	85120	86450	87780	89110	90440	91770	93100
13400	80400	81740	83080	84420	85760	87100	88440	89780	91120	92460	93800
13500	81000	82350	83700	85050	86400	87750	89100	90450	91800	93150	94500
13600	81600	82960	84320	85680	87040	88400	89760	91120	92480	93840	95200
13700	82200	83570	84940	86310	87680	89050	90420	91790	93160	94530	95900
13800	82800	84180	85550	86930	88300	89670	91040	92410	93780	95150	96520
13900	83400	84790	86180	87570	88950	90330	91710	93090	94470	95850	97230
14000	84000	85400	86800	88200	89600	91000	92400	93800	95200	96600	98000
14100	84600	86010	87420	88830	90240	91650	93060	94470	95880	97290	98700
14200	85200	86620	88040	89460	90880	92300	93720	95140	96560	97980	99400
14300	85800	87230	88650	90080	91500	92920	94340	95760	97180	98600	100020
14400	86400	87840	89280	90720	92160	93600	95040	96480	97920	99360	100800
14500	87000	88450	89900	91350	92800	94250	95700	97150	98600	100050	101500
14600	87600	89060	90520	91980	93440	94900	96360	97820	99280	100740	102200
14700	88200	89670	91140	92610	94080	95550	97020	98490	99960	101430	102900
14800	88800	90280	91750	93240	94720	96200	97680	99160	100640	102120	103600
14900	89400	90890	92380	93870	95360	96850	98340	99830	101320	102810	104300
15000	90000	91500	93000	94500	96000	97500	99000	100500	102000	103500	105000
15100	90600	92110	93620	95130	96640	98150	99660	101170	102680	104190	105700
15200	91200	92720	94240	95750	97260	98770	100280	101790	103300	104810	106320
15300	91800	93330	94850	96370	97890	99410	100930	102450	103970	105490	107010
15400	92400	93940	95480	97020	98560	100100	101640	103180	104720	106260	107800
15500	93000	94550	96100	97650	99200	100750	102300	103850	105400	106950	108500
15600	93600	95160	96720	98280	99840	101400	102960	104520	106080	107640	109200
15700	94200	95770	97340	98910	100480	102050	103620	105190	106760	108330	109900
15800	94800	96380	97960	99540	101120	102700	104280	105860	107440	109020	110600
15900	95400	96990	98580	100170	101760	103350	104940	106530	108120	109710	111300
16000	96000	97500	99200	100800	102400	104000	105600	107200	108800	110400	112000
16100	96600	98210	99820	101430	103040	104650	106260	107870	109480	111090	112700
16200	97200	98820	100440	102060	103680	105300	106920	108540	110160	111780	113400
16300	97800	99430	101050	102690	104320	105950	107580	109210	110840	112470	114100
16400	98400	100040	101680	103320	104950	106600	108240	109880	111520	113160	114800
16500	99000	100650	102300	103950	105600	107250	108900	110550	112200	113850	115500
16600	99600	101250	102920	104580	106240	107900	109560	111220	112880	114540	116200
16700	100200	101870	103540	105210	106880	108550	110220	111890	113560	115230	116900
16800	100800	102480	104150	105840	107520	109200	110880	112560	114240	115920	117600
16900	101400	103090	104780	106470	108150	109850	111540	113230	114920	116610	118300
17000	102000	103700	105400	107100	108800	110500	112200	113900	115600	117300	119000
17100	102500	104310	106020	107730	109440	111150	112860	114570	116280	117990	119700
17200	103200	104920	106640	108360	110080	111800	113520	115240	116960	118680	120400
17300	103800	105530	107250	108990	110720	112450	114180	115910	117640	119370	121100
17400	104400	106140	107880	109620	111350	113100	114840	116580	118320	120060	121800
17500	105000	106750	108500	110250	112000	113750	115500	117250	119000	120750	122500
17600	105600	107360	109120	110880	112640	114400	116150	117920	119680	121440	123200
17700	106200	107970	109740	111510	113280	115050	116820	118590	120360	122130	123900
17800	106800	108580	110360	112140	113920	115700	117480	119260	121040	122820	124600
17900	107400	109190	110980	112770	114550	116350	118140	119930	121720	123510	125300
18000	108000	109800	111600	113400	115200	117000	118800	120600	122400	124200	126000



## FUEL MOMENT TABLE

ALL FUEL MOMENT ARMS ARE BASED ON A WING ANGLE OF ATTACK OF 5° 30'. (TYPICAL CRUISE CONDITION)

FUEL: MIL-F-5572														DENSITY: 6.0 LB PER GAL							
QUANTITY		FORWARD MAIN TANK		CENTER MAIN TANK		AFT MAIN TANK		FWD BOMB BAY TANK		AFT BOMB BAY TANK		FORWARD AUX TANK		EACH EXTERNAL WING TANK		ATO TANK					
																1260 GAL		546 GAL			
GAL PER TANK	LBS	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000		
100	600	459.0	275	650.2	390	890.5	534	483.3	290	684.6	411	260.2	156	690.0	414	600.0	480	874.0	500		
200	1200	447.0	536	644.8	774	904.8	1086	480.4	576	685.1	827	275.1	310	690.0	826	800.0	960	874.0	1000		
300	1800	440.2	792	642.0	1156	911.1	1640	476.7	864	685	1240					1000	1140	874.0	1500		
400	2400	435.6	1045	640.8	1538	915.5	2197	474.4	1146	685.4	1654					1200	1320	874.0	2000		
500	3000	432.7	1298	640.1	1920	919.2	2758	476.4	1429	685.4	2071					1400	1560	874.0	2500		
546	3276																				
600	3600	431.0	1552	640.0	2304	921.8	3318	475.7	1713	685.4	2487					1600	1760	874.0	3000		
700	4200	429.5	1804	639.9	2688	923.8	3880	474.8	1994	685.5	2879	275.2	1240	690.0	2879	800.0	3840	874.0	3500		
800	4800	428.4	2056	639.7	3071	925.5	4442	474.1	2276	685.5	3290	297.3	1427	690.0	3312	800.0	4320	874.0	4000		
900	5400	427.6	2309	639.2	3452	926.7	5004	473.5	2557	685.5	3702	304.4	1622	690.0	3726	800.0	4800	874.0	4500		
1000	6000	426.7	2560	639.1	3835	927.9	5567	472.9	2837	685.5	4113	304.5	1827	690.0	4140	800.0	4800				
1005	6030																				
1100	6600	426.0	2812	639.0	4217	928.4	6127	472.4	3118	685.5	4524			690.0	4554	800.0	5280				
1170	7020							472.0	3313												
1200	7200	425.0	3060	639.0	4601	929.1	6690			685.5	4936			690.0	4968	800.0	5760				
1260	7560															800.0	6048				
1300	7800	424.0	3307	638.8	4983	929.9	7253			685.5	5347			690.0	5382						
1400	8400	423.3	3556	638.8	5366	930.3	7815			685.6	5759			690.0	5796						
1500	9000	422.7	3804	638.6	5747	930.9	8378			685.6	6170			690.0	6210						
1600	9600	422.1	4052	638.4	6129	931.3	8940			685.5	6581			690.0	6624						
1673	10038													690.0	6926						
1700	10200	421.4	4298	638.2	6510	931.7	9503			685.5	6992										
1800	10800	420.8	4545	638.0	6890	932.1	10067			685.4	7402										
1900	11400	420.3	4791	637.9	7272	932.5	10631			685.4	7814										
2000	12000	420.0	5040	637.8	7654	933.0	11196			685.3	8224										
2100	12600	419.6	5287	637.8	8036	933.4	11761			685.2	8634										
2200	13200	419.1	5532	637.7	8418	934.0	12329			685.1	9043										
2300	13800	418.9	5781	637.4	8796	934.2	12892			685.0	9453										
2370	14220									684.9	9739										
2400	14400	418.6	6028	637.1	9174	934.4	13455														
2500	15000	418.2	6273	637.0	9555	934.6	14019														
2600	15600	417.9	6519	636.7	9933	934.8	14583														
2700	16200	417.6	6765	636.1	10305	935.1	15149														
2800	16800	417.3	7011	635.4	10675	935.3	15713														
2841	17046			635.0	10824																
2900	17400	417.1	7258			935.3	16274														
2938	17628	417.0	7351																		
3000	18000					935.5	16339														
3100	18600					935.6	17402														
3200	19200					935.5	17962														
3300	19800					935.5	18523														
3400	20400					935.3	19080														
3425	20550					935.2	19216														

## TWO EXTERNAL WING TANKS INCL. STRUTS -EMPTY

WEIGHT POUNDS	ARM	MOM 1000
1560	698.9	1090



## FUEL MOMENT TABLE

ALL FUEL MOMENT ARMS ARE BASED ON A WING ANGLE OF ATTACK OF 5° 30'. (TYPICAL CRUISE CONDITION)

FUEL: MIL-F-5624										DENSITY: 6.5 LB PER GAL									
QUANTITY		FORWARD MAIN TANK		CENTER MAIN TANK		AFT MAIN TANK		FWD BOMB BAY TANK		AFT BOMB TANK		FORWARD AUX TANK		EACH EXTERNAL WING TANK		ATO TANK			
GAL PER TANK	LBS	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000
100	650	459.0	298	650.2	423	890.5	579	483.3	314	684.6	445	260.2	169	690.0	449	800.0	520	834.0	542
200	1300	447.0	581	644.6	838	904.8	1176	480.4	625	685.1	891	275.3	358	690.0	897	800.0	1040	834.0	1084
300	1950	440.2	858	642.0	1252	911.1	1777	478.7	933	685.3	1336	282.6	551	690.0	1346	800.0	1560	834.0	1626
400	2600	435.6	1133	640.8	1666	915.5	2360	477.4	1241	685.4	1782	287.9	747	690.0	1794	800.0	2080	834.0	2168
500	3250	432.7	1406	640.1	2080	919.2	2967	476.4	1543	685.4	2226	290.5	944	690.0	2243	800.0	2600	834.0	2711
546	3549																	834.0	2960
600	3900	431.0	1681	640.0	2496	921.8	3596	475.7	1855	685.4	2673	293.0	1143	690.0	2691	800.0	3120		
700	4550	429.5	1954	639.9	2912	923.8	4203	474.8	2160	685.5	3119	295.2	1343	690.0	3140	800.0	3640		
800	5200	426.4	2226	639.7	3326	925.5	4813	474.1	2465	685.5	3565	297.3	1546	690.0	3588	800.0	4160		
900	5850	427.6	2501	639.2	3739	926.7	5421	473.5	2770	685.5	4010	300.4	1757	690.0	4037	800.0	4680		
1000	6500	426.7	2774	639.1	4154	927.9	6031	472.9	3074	685.5	4456	304.5	1979	690.0	4485	800.0	5200		
1005	6533																		
1100	7150	426.0	3046	639.0	4569	928.4	6638	472.4	3378	685.5	4901			690.0	4934	800.0	5720		
1170	7605							472.0	3590										
1200	7800	425.0	3315	639.0	4984	929.1	7247			685.5	5347			690.0	5382	800.0	6240		
1260	8190																		
1300	8450	424.0	3583	638.9	5399	929.9	7858			685.5	5792			690.0	5831				
1400	9100	423.3	3852	638.6	5813	930.3	8466			685.6	6239			690.0	6279				
1500	9750	422.7	4121	638.6	6226	930.9	9076			685.6	6685			690.0	6728				
1600	10400	422.1	4390	638.4	6639	931.3	9686			685.5	7129			690.0	7176				
1673	10875													690.0	7504				
1700	11050	421.4	4656	638.2	7052	931.7	10295			685.5	7575								
1800	11700	420.8	4923	638.0	7465	932.1	10906			685.4	8019								
1900	12350	420.3	5191	637.9	7878	932.5	11516			685.4	8465								
2000	13000	420.0	5460	637.8	8291	933.0	12129			685.3	8909								
2100	13650	419.6	5728	637.8	8706	933.4	12741			685.2	9353								
2200	14300	419.1	5993	637.7	9119	933.8	13356			685.1	9797								
2300	14950	418.9	6263	637.4	9529	934.2	13966			685.0	10241								
2370	15405									684.9	10651								
2400	15600	418.6	6530	637.1	9939	934.4	14577												
2500	16250	418.2	6796	637.0	10351	934.6	15187												
2600	16900	417.9	7063	636.7	10760	934.8	15796												
2700	17550	417.6	7329	636.1	11164	935.1	16411												
2800	18200	417.3	7595	635.4	11564	935.3	17022												
2841	18467			635.0	11727														
2900	18850	417.1	7862			935.3	17650												
2938	19097	417.0	7963																
3000	19500					935.5	18242												
3100	20150					935.6	18852												
3200	20800					935.5	19458												
3300	21450					935.5	20066												
3400	22100					935.3	20670												
3425	22263					935.2	20820												

## TWO EXTERNAL WING TANKS INCL. STRUTS -EMPTY

WEIGHT POUNDS	ARM	MOM 1000
1560	698.9	1090

## FUEL MOMENT TABLE

ALL FUEL MOMENT ARMS ARE BASED ON A WING ANGLE OF ATTACK OF 5°30'. (TYPICAL CRUISE CONDITION)

FUEL: MIL-F-3616														DENSITY: 6.8 LB PER GAL					
QUANTITY		FORWARD MAIN TANK		CENTER MAIN TANK		AFT MAIN TANK		FWD BOMB BAY TANK		AFT BOMB BAY TANK		FORWARD AUX TANK		EACH EXTERNAL WING TANK		ATO TANK			
GAL PER TANK	LBS	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000	ARM	MOM 1000
100	680	459.0	312	650.2	442	890.5	606	483.3	329	684.6	466	260.2	177	690.0	469	800.0	544	834.0	567
200	1360	447.0	608	644.8	877	904.8	1231	480.4	653	685.1	932	275.3	374	690.0	938	800.0	1088	834.0	1134
300	2040	440.2	898	642.0	1310	911.1	1859	478.7	977	685.3	1398	282.6	577	690.0	1408	800.0	1632	834.0	1701
400	2720	435.6	1185	640.8	1743	915.5	2490	477.4	1299	685.4	1864	287.3	781	690.0	1877	800.0	2176	834.0	2268
500	3400	432.7	1471	640.1	2176	919.2	3125	476.4	1620	685.4	2330	290.5	988	690.0	2346	800.0	2720	834.0	2836
546	3713																	834.0	3097
600	4080	431.0	1758	640.0	2611	921.8	3761	475.7	1941	685.4	2796	293.0	1195	690.0	2815	800.0	3264		
700	4760	429.5	2044	639.9	3046	923.8	4397	474.8	2260	685.5	3263	295.2	1405	690.0	3284	800.0	3808		
800	5440	428.4	2330	639.7	3480	925.5	5035	474.1	2579	685.5	3729	297.3	1617	690.0	3754	800.0	4352		
900	6120	427.6	2617	639.2	3912	926.7	5671	473.5	2898	685.5	4195	300.4	1836	690.0	4223	800.0	4896		
1000	6800	426.7	2902	639.1	4346	927.9	6310	472.9	3216	685.5	4661	304.5	2071	690.0	4692	800.0	5440		
1005	6834											304.5	2081						
1100	7480	426.0	3156	639.0	4780	928.4	6944	472.4	3534	685.5	5128			690.0	5161	800.0	5984		
1170	7956							472.0	3755										
1200	8160	425.0	3468	639.0	5214	929.1	7581			685.5	5594			690.0	5630	800.0	6528		
1260	8568															800.0	6854		
1300	8840	424.0	3748	638.9	5648	929.9	8220			685.5	6060			690.0	6100				
1400	9520	423.3	4030	638.8	6061	930.3	8856			685.6	6527			690.0	6569				
1500	10200	422.7	4312	638.6	6514	930.9	9495			685.6	6993			690.0	7038				
1600	10880	422.1	4592	638.4	6946	931.3	10133			685.5	7458			690.0	7507				
1673	11376													690.0	7849				
1700	11560	421.4	4871	638.2	7378	931.7	10770			685.5	7924								
1800	12240	420.8	5151	638.0	7809	932.1	11409			685.4	8389								
1900	12920	420.3	5430	637.9	8242	932.5	12048			685.4	8855								
2000	13600	420.0	5712	637.8	8674	933.0	12689			685.3	9320								
2100	14280	419.6	5992	637.3	9108	933.4	13329			685.2	9785								
2200	14960	419.1	6270	637.7	9540	934.0	13973			685.1	10249								
2300	15640	418.9	6552	637.4	9969	934.2	14611			685.0	10713								
2370	16116									684.9	11038								
2400	16320	418.6	6832	637.1	10397	934.4	15249												
2500	17000	418.2	7109	637.0	10829	934.6	15888												
2600	17680	417.9	7388	636.7	11257	934.8	16527												
2700	18360	417.6	7667	636.1	11679	935.1	17168												
2800	19040	417.3	7945	635.4	12098	935.3	17808												
2841	19319			635.0	12268														
2900	19720	417.1	8225			935.3	18444												
2938	19978	417.0	8331																
3000	20400					935.5	19084												
3100	21080					935.6	19722												
3200	21760					935.5	20356												
3300	22440					935.5	20993												
3400	23120					935.3	21624												
3425	23290					935.2	21781												

## TWO EXTERNAL WING TANKS INCL. STRUTS - EMPTY

WEIGHT POUNDS	ARM	MOM 1000
1560	698.9	1090

AN01-1B-40

Chart E  
Sheet 13 of 26  
Model RB-47E  
Chart Date - See Sheet 1

# OIL TABLES

## INDIVIDUAL TANKS

QUANTITY PER TANK		MOMENT/1000					
VOLUME	WEIGHT @ 7.5LB PER GAL	ENGINE OIL TANK NO. 1 ARM 771	ENGINE OIL TANK NO. 2 ARM 572	ENGINE OIL TANK NO. 3 ARM 581	ENGINE OIL TANK NO. 4 ARM 581	ENGINE OIL TANK NO. 5 ARM 572	ENGINE OIL TANK NO. 6 ARM 771
GALLONS	POUNDS						
1	7.5	6	4	4	4	4	6
2	15.0	12	9	9	9	9	12
3	22.5	17	13	13	13	13	17
4	30.0	23	17	17	17	17	23
5	37.5	29	21	21	21	21	29
6	45.0	35	26	26	26	26	35
7	52.5	40	30	31	31	30	40
8	60.0	46	34	35	35	34	46
9	67.5	52	39	39	39	39	52
7.4	70.5	54	40	41	41	40	54

## TOTAL TANKS

QUANTITY PER AIRPLANE		MOMENT 1000
VOLUME	WEIGHT @ 7.5LB PER GAL	
GALLONS	POUNDS	
6	45	29
12	90	58
18	135	87
24	180	117
30	225	146
36	270	175
42	315	204
48	360	233
54	405	262
50.4	378	270

# WATER-ALCOHOL MOMENT TABLE

TANK	VOLUME	WEIGHT @ 8.0LB PER GAL POUNDS	ARM	MOMENT 1000
VOLUME	GALLONS			
1-4	165	1320	512.0	675
1-2	331	2640	507.0	1341
3-4	496	3960	505.0	2001
FULL	662	5280	502.0	2661

# CREW MOMENT TABLE

CREW WEIGHT	PHOTO NAVIGATOR STA 108	PILOT STA 190	COPILOT STA 292
	MOMENT / 1000		
180	19	34	45
200	22	39	50
230	25	44	58

AMMUNITION TABLE  
20 MM

ROUNDS IN CHUTES & BOXES	WEIGHT POUNDS	MOMENT / 1000		
		CHUTES ARM 1274.0	BOXES ARM 1228.0	TOTAL
100	62	79		79
200	124	79	76	155
300	186	79	152	231
400	248	79	229	308
500	310	79	305	384
600	372	79	381	460
700	434	79	457	536

PHOTO FLASH BOMB TABLE  
(TYPE M 120)

NO. OF BOMBS	WEIGHT	MOMENT / 1000 ARM 468.0
2	300	140
4	600	281
6	900	421
8	1200	562
10	1500	702

PHOTO FLASH CARTRIDGE TABLE

NO.	WEIGHT	MOMENT / 1000 ARM 1061.0
200	180	191

CHAFF TABLE  
(METALLIC)

NO. OF PACKAGES	WEIGHT POUNDS	MOMENT 1000
100	110	86
200	220	172
300	330	258
400	440	344
500	550	430
600	660	516
700	770	602
768	845	661

SOLID ATO ROCKET TABLE  
ATO ROCKETS EXPENDED

TYPE OF ATO ROCKETS	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	PER BANK			PER AIRPLANE		
			MOMENT/1000			NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOM/1000
			FWD BANK ARM 768.2	CTR BANK ARM 797.6	AFT BANK ARM 828.6			
14AS 1000	2	236	181	138	196	18	2124	1690
	4	472	363	276	391			
	6	706	542	363	585			
14DS 1000	2	158	121	126	131	18	1422	1135
	4	316	243	252	262			
	6	474	364	376	393			
15KS 1000	2	136	104	108	113	18	1224	976
	4	272	209	217	225			
	6	408	313	325	338			

## ATO ROCKETS CHARGE

TYPE OF ATO ROCKETS	NUMBER OF ATO CHARGES	WEIGHT POUNDS	PER BANK			PER AIRPLANE		
			MOMENT/1000			NUMBER OF ATO CHARGES	WEIGHT POUNDS	MOM/1000
			FWD BANK ARM 766.7	CTR BANK ARM 796.1	AFT BANK ARM 827.1			
14AS 1000	6	492	377	392	407	18	1476	1176
14DS 1000	6	474	363	377	392	18	1422	1132
15KS 1000	6	432	331	344	357	18	1296	1032

EXTERNAL SOLID ATO ROCKET TABLE  
ATO ROCKETS EXPENDED

TYPE OF ATO ROCKETS	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	PER BANK			PER AIRPLANE		
			MOMENT/1000			NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOM/1000
			FWD BANK ARM 883.0	CTR BANK ARM 917.1	AFT BANK ARM 930.3			
14AS 1000	11	1298	1145	1170	1243	33	3894	3569
14DS 1000	11	869	767	797	826	33	2607	2390
15KS 1000	11	748	560	606	711	33	2244	2057

## ATO ROCKETS CHARGE

TYPE OF ATO ROCKETS	NUMBER OF ATO ROCKETS	WEIGHT POUNDS	PER BANK			PER AIRPLANE		
			MOMENT/1000			NUMBER OF ATO ROCKETS	WEIGHT POUNDS	MOM/1000
			FWD BANK ARM 880.6	CTR BANK ARM 914.5	AFT BANK ARM 947.8			
14AS 1000	11	902	794	825	855	33	2706	2474
14DS 1000	11	869	765	795	824	33	2607	2384
15KS 1000	11	792	697	721	751	33	2376	2172

## EXTERNAL ATO RACK

WEIGHT POUNDS	ARM	MOM/1000
509	916.4	466



## COMPARTMENT STRUCTURAL CAPACITY

COMPARTMENT NAME AND LETTER DESIGNATION	COMPARTMENT STRUCTURAL CAPACITY IN POUNDS	MAXIMUM CONCENTRATED FLOOR LOADING -LB/SQ FT.
A NOSE	400	40
B PILOTS	—	•
C FWD. LNDG. GEAR	2500	100
D FLASH BOMB & FUEL	1500	••
E CAMERA & FUEL	—	•
F AFT LNDG. GEAR & ATO	4800	60
G AFT FUEL	—	•
H FLIGHT CONTROL & ACCESSORY	4000	140
I TURRET	—	•

NOTES

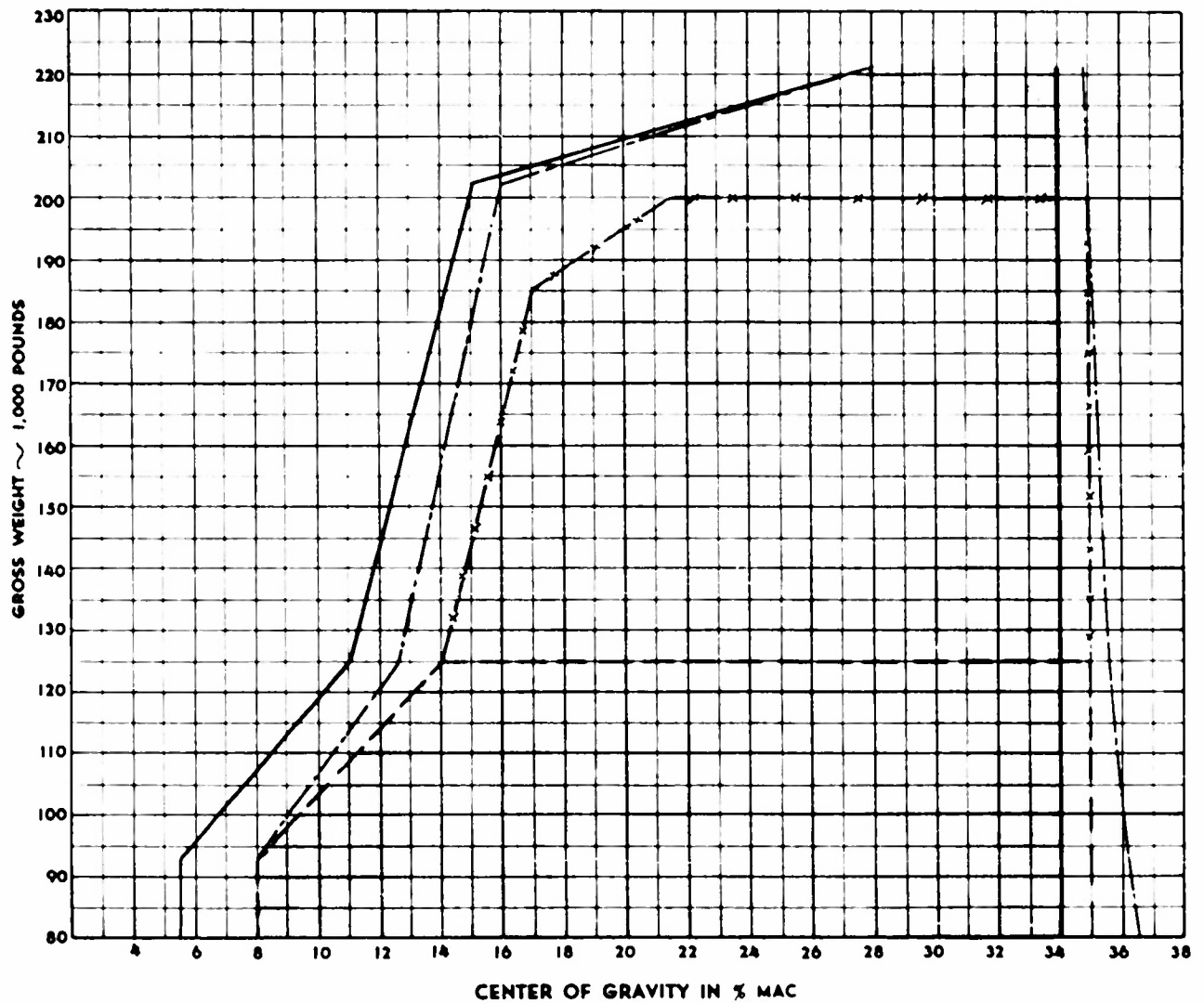
- LOAD NO CARGO OR BALLAST
- LOAD SUPPORTED BY BOMB RACKS ONLY

## CARGO LOADING TABLE

WEIGHT POUNDS	A ARM 100	B ARM 240	C ARM 375	D ** ARM 468	E ARM 628	F ARM 800	G ARM 945	H ARM 1123	I ARM 1270
	MOMENT/1000								
50	5		19	23		40		56	
100	10		38	47		80		112	
150	15		56	70		120		168	
200	20		75	94		160		225	
250	25		94	117		200		281	
300	30		113	140		240		337	
350	35		131	164		280		393	
400	40		150	187		320		449	
450			169	211		360		505	
500			188	234		400		562	
550			206	257		440		618	
600			225	281		480		674	
650			244	304		520		730	
700			263	328		560		786	
750			281	351		600		842	
800			300	374		640		898	
850			319	398		680		955	
900			338	421		720		1011	
950			356	445		760		1067	
1000			375	468		800		1123	
1100			413	515		880		1235	
1200			450	562		960		1348	
1300			488	608		1040		1460	
1400			525	655		1120		1572	
1500			563	702		1200		1685	
1600			600			1280		1797	
1700			638			1360		1909	
1800			675			1440		2021	
1900			713			1520		2134	
2000			750			1600		2246	
2500			938			2000		2808	
3000						2400		3369	
3500						2800		3931	
4000						3200		4492	
4500						3600			
4800						3840			

LOAD NO CARGO OR BALLAST IN THIS COMPARTMENT

## CENTER OF GRAVITY LIMITATIONS



## LEGEND

- FLIGHT LIMIT.
- - - FLIGHT LIMIT, MODIFIED TO REFLECT THE LANDING GEAR IN THE DOWN POSITION.
- · - · - LANDING LIMIT.
- x - x - TAXI LIMIT.
- ◻ SHADED AREA REPRESENTS THE CENTER OF GRAVITY RANGE AS SHOWN IN THE CHART "E" CENTER OF GRAVITY MOMENT TABLES.

## CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8% MAC (597.3)	9% MAC (598.8)	10% MAC (600.4)	11% MAC (601.9)	12% MAC (603.5)	13% MAC (605.1)	14% MAC (606.6)	15% MAC (608.2)	16% MAC (609.7)	18% MAC (612.9)	20% MAC (616.0)	22% MAC (619.1)	24% MAC (622.2)	26% MAC (625.3)	28% MAC (628.3)	30% MAC (631.4)	32% MAC (634.7)	34% MAC (637.8)
78000	46589	46706	46831	46956	47073	47198	47315	47440	47557	47806	48048	48290	48532	48773	49023	49265	49507	49748
200	46709	46826	46951	47076	47201	47326	47451	47576	47701	47950	48192	48434	48676	48918	49160	49402	49644	49886
400	46828	46945	47070	47195	47320	47445	47570	47695	47820	48069	48311	48553	48795	49037	49279	49521	49763	50005
600	46948	47065	47190	47315	47440	47565	47690	47815	47940	48189	48431	48673	48915	49157	49399	49641	49883	50125
800	47067	47184	47309	47434	47559	47684	47809	47934	48059	48308	48550	48792	49034	49276	49518	49760	50002	50244
79000	47187	47304	47429	47554	47679	47804	47929	48054	48179	48428	48670	48912	49154	49396	49638	49880	50122	50364
200	47306	47423	47548	47673	47798	47923	48048	48173	48298	48547	48789	49031	49273	49515	49757	50000	50242	50484
400	47426	47543	47668	47793	47918	48043	48168	48293	48418	48667	48909	49151	49393	49635	49877	50120	50362	50604
600	47545	47662	47787	47912	48037	48162	48287	48412	48537	48786	49028	49270	49512	49754	50000	50242	50484	50726
800	47665	47782	47907	48032	48157	48282	48407	48532	48657	48906	49148	49390	49632	49874	50120	50362	50604	50846
80000	47784	47901	48026	48151	48276	48401	48526	48651	48776	49025	49267	49509	49751	49993	50235	50477	50720	50962
200	47903	48020	48145	48270	48395	48520	48645	48770	48895	49144	49386	49628	49870	50112	50354	50597	50839	51081
400	48023	48140	48265	48390	48515	48640	48765	48890	49015	49264	49506	49748	49990	50232	50474	50717	50959	51201
600	48142	48259	48384	48509	48634	48759	48884	49009	49134	49383	49625	49867	50109	50351	50593	50835	51077	51319
800	48262	48383	48512	48634	48763	48892	49021	49143	49264	49504	49746	49988	50230	50472	50714	50956	51198	51440
81000	48381	48503	48632	48754	48884	49013	49135	49264	49386	49635	49877	50119	50361	50603	50845	51087	51329	51571
200	48501	48623	48752	48874	49004	49134	49265	49396	49527	49776	50018	50260	50502	50744	50986	51228	51470	51712
400	48620	48742	48871	48993	49124	49254	49385	49516	49647	49896	50138	50380	50622	50864	51106	51348	51590	51832
600	48740	48862	48993	49115	49246	49376	49507	49637	49768	50017	50259	50501	50743	50985	51227	51469	51711	51953
800	48859	48982	49113	49235	49365	49497	49629	49761	49893	50142	50384	50626	50868	51110	51352	51594	51836	52078
82000	48979	49102	49233	49355	49487	49619	49751	49883	50015	50264	50506	50748	50990	51232	51474	51716	51958	52200
200	49098	49221	49353	49475	49608	49740	49873	50005	50138	50387	50629	50871	51113	51355	51597	51839	52081	52323
400	49218	49341	49473	49597	49721	49845	49969	50093	50217	50466	50708	50950	51192	51434	51676	51918	52160	52402
600	49337	49460	49583	49707	49831	49955	50079	50203	50327	50576	50818	51060	51302	51544	51786	52028	52270	52512
800	49456	49581	49713	49837	49970	50102	50226	50359	50483	50732	50974	51216	51458	51700	51942	52184	52426	52668
83000	49576	49700	49833	49958	50091	50223	50356	50489	50622	50871	51113	51355	51597	51839	52081	52323	52565	52807
200	49695	49820	49953	50078	50211	50344	50477	50610	50743	50992	51234	51476	51718	51960	52202	52444	52686	52928
400	49815	49940	50073	50198	50323	50448	50573	50698	50823	51072	51314	51556	51798	52040	52282	52524	52766	53008
600	49934	50060	50193	50319	50445	50571	50697	50823	50949	51198	51440	51682	51924	52166	52408	52650	52892	53134
800	50054	50180	50314	50439	50565	50691	50817	50943	51069	51318	51560	51802	52044	52286	52528	52770	53012	53254
84000	50173	50299	50434	50560	50686	50812	50938	51064	51190	51439	51681	51923	52165	52407	52649	52891	53133	53375
200	50293	50419	50554	50680	50806	50932	51058	51184	51310	51559	51801	52043	52285	52527	52769	53011	53253	53495
400	50412	50539	50674	50800	50926	51052	51178	51304	51430	51679	51921	52163	52405	52647	52889	53131	53373	53615
600	50532	50658	50794	50921	51046	51172	51298	51424	51550	51800	52042	52284	52526	52768	53010	53252	53494	53736
800	50651	50778	50914	51041	51167	51293	51419	51545	51671	51920	52162	52404	52646	52888	53130	53372	53614	53856
85000	50771	50898	51034	51162	51298	51434	51561	51697	51825	52072	52314	52556	52798	53040	53282	53524	53766	54008
200	50890	51018	51154	51282	51418	51555	51682	51819	51946	52219	52461	52703	52945	53187	53429	53671	53913	54155
400	51009	51138	51274	51402	51539	51676	51813	51940	52068	52342	52584	52826	53068	53310	53552	53794	54036	54278
600	51129	51257	51394	51523	51660	51797	51934	52072	52209	52478	52720	52962	53204	53446	53688	53930	54172	54414
800	51248	51377	51514	51643	51780	51918	52056	52194	52332	52587	52829	53071	53313	53555	53797	54039	54281	54523
86000	51368	51497	51634	51763	51891	52029	52168	52306	52445	52700	52942	53184	53426	53668	53910	54152	54394	54636
200	51487	51617	51754	51884	52022	52160	52298	52437	52575	52830	53072	53314	53556	53798	54040	54282	54524	54766
400	51607	51736	51875	52004	52142	52281	52419	52558	52696	52951	53193	53435	53677	53919	54161	54403	54645	54887
600	51726	51855	51995	52125	52263	52402	52540	52679	52817	53072	53314	53556	53798	54040	54282	54524	54766	55008
800	51846	51976	52115	52254	52393	52532	52671	52810	52949	53204	53446	53688	53930	54172	54414	54656	54898	55140
87000	51965	52096	52235	52365	52505	52644	52774	52913	53054	53302	53544	53786	54028	54270	54512	54754	54996	55238
200	52085	52215	52355	52486	52625	52765	52896	53035	53176	53424	53666	53908	54150	54392	54634	54876	55118	55360
400	52204	52335	52475	52606	52746	52886	53017	53157	53288	53536	53778	54020	54262	54504	54746	54988	55230	55472
600	52323	52455	52595	52726	52867	53007	53138	53278	53410	53658	53899	54141	54383	54625	54867	55109	55351	55593
800	52443	52575	52715	52847	52987	53126	53259	53394	53528	53783	54025	54267	54509	54751	54993	55235	55477	55719
88000	52562	52694	52835	52967	53108	53249	53381	53522	53654	53903	54145	54387	54629	54871	55113	55355	55597	55839
200	52682	52814	52955	53088	53229	53370	53502	53643	53776	54025	54267	54509	54751	54993	55235	55477	55719	55961
400	52801	52934	53075	53208	53349	53491	53632	53775	53917	54166	54408	54650	54892	55134	55376</			



## CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8 %	9 %	10 %	11 %	12 %	13 %	14 %	15 %	16 %	18 %	20 %	22 %	24 %	26 %	28 %	30 %	32 %	34 %
	MAC (597.3)	MAC (598.8)	MAC (600.4)	MAC (601.9)	MAC (603.5)	MAC (605.1)	MAC (606.6)	MAC (608.2)	MAC (609.7)	MAC (612.9)	MAC (616.0)	MAC (619.1)	MAC (622.2)	MAC (623.3)	MAC (628.5)	MAC (631.6)	MAC (634.7)	MAC (637.8)
94000		56287	56438	56579	56729	56879	57020	57171	57312	57613	57904	58195	58487	56778	59079	59370	59662	59953
200		56407	56558	56699	56850	57000	57142	57292	57434	57735	58027	58319	58611	58903	59205	59497	59789	60081
400		56527	56678	56819	56970	57121	57263	57414	57556	57858	58150	58443	58736	59028	59330	59623	59916	60208
600		56646	56798	56940	57091	57242	57384	57536	57678	57980	58274	58567	58860	59153	59456	59749	60043	60336
800		56766	56918	57060	57212	57363	57506	57657	57800	58103	58397	58691	58985	59278	59582	59876	60170	60463
95000		56886	57038	57181	57333	57485	57627	57779	57922	58226	58520	58815	59109	59404	59700	60002	60297	60591
200		57006	57158	57301	57453	57606	57748	57901	58043	58348	58643	58938	59233	59529	59833	60128	60423	60719
400		57126	57278	57421	57574	57727	57870	58022	58165	58471	58766	59062	59358	59654	59959	60255	60550	60846
600		57245	57398	57542	57695	57848	57991	58144	58287	58593	58890	59186	59482	59779	60085	60381	60677	60974
800		57365	57518	57662	57815	57968	58112	58266	58409	58716	59013	59310	59607	59904	60210	60507	60804	61101
96000		57485	57638	57782	57936	58090	58234	58387	58531	58838	59136	59434	59731	60029	60336	60634	60931	61229
200		57605	57758	57903	58057	58211	58355	58509	58653	58969	59259	59557	59856	60154	60462	60760	61058	61356
400		57724	57877	58023	58177	58332	58476	58630	58775	59084	59382	59681	59980	60279	60587	60886	61185	61484
600		57844	57999	58144	58298	58453	58598	58752	58897	59206	59506	59805	60105	60404	60713	61013	61312	61611
800		57964	58119	58264	58419	58574	58719	58874	59019	59329	59629	59929	60229	60529	60839	61139	61439	61739
97000		58084	58239	58384	58539	58694	58839	58994	59141	59451	59752	60053	60353	60654	60955	61255	61556	61857
200		58203	58358	58505	58660	58816	58962	59117	59263	59574	59875	60177	60478	60779	61080	61382	61683	61984
400		58323	58478	58625	58781	58937	59083	59239	59385	59696	59998	60300	60602	60904	61216	61518	61820	62122
600		58443	58599	58745	58902	59058	59204	59360	59507	59819	60122	60424	60727	61029	61332	61634	61937	62240
800		58563	58719	58866	59022	59179	59325	59482	59629	59942	60245	60546	60851	61154	61467	61770	62074	62377
98000		58682	58839	58986	59143	59300	59447	59604	59751	60064	60368	60672	60976	61279	61593	61897	62201	62504
200		58802	58959	59107	59264	59421	59568	59725	59872	60187	60491	60795	61100	61404	61719	62023	62328	62632
400		58922	59079	59227	59384	59542	59689	59847	59994	60309	60614	60919	61224	61530	61844	62149	62454	62760
600		59042	59199	59347	59505	59663	59811	59969	60116	60432	60738	61043	61349	61655	61970	62276	62581	62887
800		59162	59319	59466	59624	59781	59932	60090	60235	60555	60861	61167	61473	61780	62096	62402	62708	63015
99000		59282	59439	59586	59743	59900	60053	60212	60360	60677	60984	61291	61598	61905	62222	62528	62835	63142
200		59402	59559	59706	59863	60020	60175	60333	60482	60800	61107	61415	61722	62030	62347	62655	62962	63270
400		59522	59679	59826	59983	60141	60296	60455	60604	60922	61230	61539	61847	62155	62473	62781	63089	63397
600		59642	59799	59946	60103	60260	60417	60575	60733	61051	61359	61667	61976	62280	62599	62907	63216	63525
800		59762	59919	60077	60234	60391	60549	60706	60864	61182	61490	61798	62106	62420	62734	63048	63363	63677
100000		60004	60190	60350	60510	60660	60820	60970	61290	61600	61910	62220	62530	62850	63160	63470	63780	64090
200		60160	60310	60471	60631	60781	60941	61092	61413	61723	62034	62344	62655	62976	63286	63597	63908	64219
400		60280	60431	60591	60752	60903	61063	61214	61535	61846	62158	62469	62780	63091	63401	63712	64023	64334
600		60400	60551	60712	60873	61024	61185	61336	61658	61970	62281	62593	62905	63217	63529	63841	64153	64465
800		60520	60672	60833	60994	61145	61307	61458	61780	62093	62405	62718	63030	63343	63655	63968	64281	64594
101000		60640	60792	60953	61115	61267	61428	61580	61903	62216	62529	62842	63155	63479	63792	64105	64418	64731
200		60760	60912	61074	61236	61388	61550	61702	62025	62339	62653	62967	63280	63594	63908	64222	64536	64850
400		60881	61033	61195	61357	61509	61671	61824	62148	62462	62777	63091	63405	63720	64034	64349	64663	64978
600		61001	61153	61315	61478	61631	61793	61946	62271	62586	62901	63216	63530	63845	64160	64475	64790	65105
800		61121	61273	61436	61599	61752	61915	62068	62393	62709	63024	63340	63656	63971	64287	64602	64918	65233
102000		61241	61394	61557	61720	61873	62036	62189	62516	62832	63146	63461	63776	64091	64407	64723	65038	65354
200		61361	61514	61678	61841	61995	62158	62311	62638	62955	63272	63589	63906	64223	64540	64857	65174	65491
400		61481	61635	61798	61962	62116	62280	62434	62761	63078	63396	63713	64031	64348	64666	64983	65301	65618
600		61601	61755	61919	62083	62237	62401	62555	62882	63202	63520	63838	64156	64474	64792	65110	65428	65746
800		61721	61875	62040	62204	62358	62523	62677	63006	63325	63643	63962	64281	64600	64919	65238	65557	65876
103000		61841	61996	62161	62325	62489	62654	62819	63149	63468	63787	64106	64425	64744	65063	65382	65701	66020
200		61961	62116	62281	62446	62611	62776	62941	63271	63590	63909	64228	64547	64866	65185	65504	65823	66142
400		62081	62236	62401	62566	62732	62897	63062	63392	63711	64030	64349	64668	64987	65307	65626	65945	66264
600		62201	62357	62523	62688	62854	63020	63185	63515	63834	64153	64472	64791	65110	65429	65748	66067	66386
800		62322	62477	62643	62809	62975	63141	63307	63637	63956	64275	64594	64913	65232	65551	65870	66189	66508
104000		62442	62598	62764	62930	63096	63263	63429	63759	64078	64397	64716	65035	65354	65673	65992	66311	66630
200		62562	62718	62885	63051	63218	63385	63552	63882	64201	64520	64839	65158	65477	65796	66115	66434	66753
400		62682	62838	63005	63172	63339	63506	63673	64003	64322	64641	64960	65279	65598	65917	66236	66555	66874
600		62802	62959	63126	63293													

AN 01-18-40

## CENTER OF GRAVITY TABLE

Chart E  
Sheet 20 of 26  
Model RB-47E  
Chart Date - See Sheet 1

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8% MAC (397.3)	9% MAC (398.8)	10% MAC (400.4)	11% MAC (401.9)	12% MAC (403.5)	13% MAC (405.1)	14% MAC (406.6)	15% MAC (408.2)	16% MAC (409.7)	18% MAC (412.9)	20% MAC (416.0)	22% MAC (419.1)	24% MAC (422.2)	26% MAC (425.3)	28% MAC (428.3)	30% MAC (431.6)	32% MAC (434.7)	34% MAC (437.8)
113000					88196	88376	88546	88727	88896	89258	89806	89958	90309	90859	91021	91371	91721	92071
200					88316	88437	88667	88848	89018	89380	89731	90082	90433	90784	91146	91497	91848	92199
400					88437	88618	88788	88970	89140	89503	89854	90205	90557	90909	91272	91623	91975	92327
600					88558	88739	88910	89092	89262	89625	89978	90330	90682	91034	91398	91750	92102	92454
800					88678	88860	89031	89213	89384	89748	90101	90454	90806	91159	91523	91876	92229	92582
114000					88799	88981	89152	89335	89506	89871	90224	90577	90931	91284	91649	92002	92356	92709
200					88920	89102	89274	89456	89628	89993	90347	90701	91055	91409	91775	92129	92483	92837
400					89040	89223	89395	89576	89750	90116	90470	90825	91180	91534	91900	92255	92610	92964
600					89160	89344	89516	89700	89872	90238	90594	90949	91304	91659	92026	92381	92737	93092
800					89280	89465	89638	89821	89994	90361	90717	91073	91429	91784	92152	92508	92864	93219
115000					89401	89587	89759	89943	90116	90484	90840	91197	91553	91910	92278	92634	92991	93347
200					89520	89708	89880	90065	90237	90606	90963	91320	91677	92035	92393	92750	93107	93465
400					89640	89829	90002	90186	90359	90729	91086	91444	91802	92160	92519	92877	93234	93602
600					89760	89950	90123	90308	90481	90851	91210	91568	91926	92285	92643	93001	93359	93730
800					89880	90071	90244	90430	90603	90974	91333	91692	92051	92410	92768	93126	93484	93857
116000					89501	89692	89865	90051	90225	90596	90953	91310	91667	92024	92381	92738	93095	93452
200					89620	89813	89987	90173	90349	90719	91076	91433	91790	92147	92504	92861	93218	93575
400					89740	89934	90109	90296	90473	90844	91201	91558	91915	92272	92629	92986	93343	93700
600					89860	90055	90231	90418	90595	90966	91323	91680	92037	92394	92751	93108	93465	93822
800					89980	90176	90353	90540	90717	91088	91445	91802	92159	92516	92873	93230	93587	93944
117000					89601	89794	89969	90155	90331	90702	91059	91416	91773	92130	92487	92844	93201	93558
200					89720	89915	90092	90279	90456	90827	91184	91541	91898	92255	92612	92969	93326	93683
400					89840	90036	90214	90401	90578	90949	91306	91663	92020	92377	92734	93091	93448	93805
600					89960	90157	90336	90523	90700	91071	91428	91785	92142	92499	92856	93213	93570	93927
800					90080	90278	90458	90645	90822	91193	91550	91907	92264	92621	92978	93335	93692	94049
118000					89701	89896	90074	90261	90438	90810	91167	91524	91881	92238	92595	92952	93309	93666
200					89820	89999	90178	90365	90542	90914	91271	91628	91985	92342	92699	93056	93413	93770
400					89940	90120	90299	90486	90663	91035	91392	91749	92106	92463	92820	93177	93534	93891
600					90060	90241	90421	90608	90785	91157	91514	91871	92228	92585	92942	93299	93656	94013
800					90180	90362	90543	90730	90907	91279	91636	91993	92350	92707	93064	93421	93778	94135
119000					89801	89997	90177	90364	90541	90913	91270	91627	91984	92341	92698	93055	93412	93769
200					89920	90101	90282	90469	90646	91018	91375	91732	92089	92446	92803	93160	93517	93874
400					90040	90222	90403	90590	90767	91139	91496	91853	92210	92567	92924	93281	93638	93995
600					90160	90343	90525	90712	90889	91261	91618	91975	92332	92689	93046	93403	93760	94117
800					90280	90464	90647	90834	91011	91383	91740	92097	92454	92811	93168	93525	93882	94239
120000					89901	90099	90280	90467	90644	91016	91373	91730	92087	92444	92801	93158	93515	93872
200					90020	90203	90385	90572	90749	91121	91478	91835	92192	92549	92906	93263	93620	93977
400					90140	90324	90507	90694	90871	91243	91600	91957	92314	92671	93028	93385	93742	94099
600					90260	90445	90629	90816	90993	91365	91722	92079	92436	92793	93150	93507	93864	94221
800					90380	90566	90751	90938	91115	91487	91844	92201	92558	92915	93272	93629	93986	94343
121000					90001	90200	90383	90570	90747	91119	91476	91833	92190	92547	92904	93261	93618	93975
200					90120	90305	90489	90676	90853	91225	91582	91939	92296	92653	93010	93367	93724	94081
400					90240	90426	90611	90800	90977	91349	91706	92063	92420	92777	93134	93491	93848	94205
600					90360	90547	90733	90922	91100	91472	91829	92186	92543	92900	93257	93614	93971	94328
800					90480	90668	90855	91044	91222	91594	91951	92308	92665	93022	93379	93736	94093	94450
122000					90101	90302	90487	90674	90851	91223	91580	91937	92294	92651	93008	93365	93722	94079
200					90220	90407	90593	90780	90957	91329	91686	92043	92400	92757	93114	93471	93828	94185
400					90340	90528	90715	90904	91081	91453	91810	92167	92524	92881	93238	93595	93952	94309
600					90460	90649	90837	91026	91203	91575	91932	92289	92646	93003	93360	93717	94074	94431
800					90580	90770	90959	91148	91325	91697	92054	92411	92768	93125	93482	93839	94196	94553
123000					90201	90404	90591	90778	90955	91327	91684	92041	92398	92755	93112	93469	93826	94183
200					90320	90513	90701	90890	91067	91439	91796	92153	92510	92867	93224	93581	93938	94295
400					90440	90634	90823	91012	91190	91562	91919	92276	92633	92990	93347	93704	94061	94418
600					90560	90755	90945	91134	91312	91684	92041	92398	92755	93112	93469	93826	94183	94540
800					90680	90876	91067	91258	91436	91808	92165	92522	92879	93236	93593	93950	94307	94664
124000					90301	90506	90695	90884	91073	91445	91802	92159	92516	92873	93230	93587	93944	94301
200					90420	90615	90805	90996	91174	91546	91903	92260	92617	92974	93331	93688	94045	94402
400					90540	90736	90927	91118	91296	91668	92025	92382	92739	93096	93453	93810	94167	94524
600					90660	90857	91049	91240	91418	91790	92147	92504	92861	93218	93575	939		



AN 01-18-40  
**CENTER OF GRAVITY TABLE**

Chart E  
Sheet 21 of 26  
Model RB-47E  
Chart Date - See Sheet 1

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8 %	9 %	10 %	11 %	12 %	13 %	14 %	15 %	16 %	18 %	20 %	22 %	24 %	26 %	28 %	30 %	32 %	34 %
	MAC (597.3)	MAC (598.8)	MAC (600.4)	MAC (601.9)	MAC (603.5)	MAC (605.1)	MAC (606.6)	MAC (608.2)	MAC (609.7)	MAC (612.9)	MAC (616.0)	MAC (619.1)	MAC (622.4)	MAC (625.3)	MAC (628.5)	MAC (631.6)	MAC (634.7)	MAC (637.8)
132000								80282	80480	80903	81312	81721	82130	82540	82962	83371	83780	84190
200								80404	80602	81025	81435	81845	82255	82665	83088	83498	83907	84317
400								80526	80724	81148	81558	81969	82379	82790	83213	83624	84034	84445
600								80647	80846	81271	81682	82093	82504	82915	83339	83750	84161	84572
800								80769	80968	81393	81805	82216	82628	83040	83455	83876	84288	84700
133000								80891	81090	81516	81928	82340	82753	83165	83581	84003	84415	84827
200								81012	81212	81638	82051	82464	82877	83290	83716	84129	84542	84955
400								81134	81334	81761	82174	82588	83001	83415	83832	84255	84668	85083
600								81256	81456	81883	82296	82712	83126	83540	83965	84382	84796	85210
800								81377	81578	82006	82421	82838	83250	83665	84091	84508	84923	85338
134000								81499	81700	82129	82544	82959	83375	83790	84219	84634	85050	85465
200								81620	81822	82251	82667	83083	83499	83915	84345	84761	85177	85593
400								81742	81944	82374	82790	83207	83624	84040	84468	84887	85304	85720
600								81864	82066	82496	82914	83331	83748	84165	84586	85013	85431	85848
800								81985	82188	82619	83037	83455	83873	84290	84722	85140	85558	85975
135000								82107	82310	82742	83160	83579	83997	84415	84848	85266	85685	86103
200								82229	82431	82864	83283	83702	84121	84541	84973	85392	85811	86231
400								82350	82553	82987	83408	83826	84246	84666	85099	85519	85938	86358
600								82472	82675	83109	83530	83950	84370	84791	85225	85645	86065	86486
800								82594	82797	83232	83653	84074	84495	84916	85350	85771	86192	86613
136000								82715	82918	83354	83776	84198	84619	85041	85476	85898	86319	86741
200								82837	83040	83477	83899	84321	84744	85168	85602	86024	86446	86868
400								82958	83161	83600	84022	84444	84868	85291	85727	86150	86573	86996
600								83080	83283	83722	84146	84569	84993	85416	85853	86277	86700	87123
800								83202	83405	83845	84269	84693	85117	85541	85979	86403	86827	87251
137000								83323	83526	83967	84392	84817	85241	85666	86105	86529	86954	87379
200								83445	83648	84090	84515	84941	85366	85791	86230	86658	87081	87506
400								83567	83770	84212	84638	85064	85490	85916	86356	86782	87208	87634
600								83688	83891	84334	84762	85188	85615	86041	86482	86908	87335	87761
800								83810	84013	84458	84885	85312	85739	86166	86607	87034	87462	87889
138000								83932	84135	84580	85008	85436	85864	86291	86733	87161	87589	88016
200								84053	84256	84703	85131	85560	85988	86416	86859	87287	87716	88144
400								84175	84378	84825	85254	85683	86112	86542	86984	87413	87842	88272
600								84297	84500	84948	85376	85807	86237	86667	87110	87540	87969	88399
800								84418	84621	85070	85501	85931	86361	86792	87236	87666	88096	88527
139000								84540	84743	85192	85624	86055	86486	86917	87362	87792	88223	88654
200								84661	84864	85313	85747	86179	86610	87042	87487	87919	88352	88784
400								84783	84986	85435	85870	86303	86735	87167	87613	88045	88477	88909
600								84905	85108	85558	85994	86426	86859	87292	87739	88171	88604	89037
800								85026	85229	85680	86117	86550	86984	87417	87864	88296	88731	89164
140000								85148	85351	85802	86240	86674	87108	87542	87990	88424	88858	89292
200								85270	85473	85924	86363	86798	87232	87667	88116	88550	88985	89420
400								85391	85594	86045	86486	86922	87357	87792	88241	88677	89112	89547
600								85513	85716	86168	86609	87045	87481	87917	88367	88803	89239	89675
800								85635	85838	86290	86733	87169	87605	88042	88493	88929	89366	89802
141000								85756	85959	86412	86856	87299	87733	88167	88619	89056	89493	89930
200								85878	86081	86534	86979	87417	87855	88294	88744	89182	89620	90057
400								85999	86202	86655	87102	87541	87979	88417	88870	89308	89747	90185
600								86121	86324	86777	87228	87665	88104	88542	88996	89435	89874	90312
800								86243	86446	86900	87349	87786	88224	88668	89121	89561	90000	90440
142000								86364	86567	87022	87472	87912	88352	88793	89247	89687	90127	90568
200								86486	86689	87144	87595	88035	88477	88918	89373	89814	90254	90695
400								86608	86811	87266	87718	88160	88603	89048	89498	89940	90381	90823
600								86729	86932	87387	87842	88284	88728	89176	89624	90066	90508	90950
800								86851	87054	87509	87965	88407	88850	89293	89740	90192	90635	91078
143000								86973	87176	87632	88088	88531	88975	89418	89876	90319	90762	91205
200								87095	87298	87754	88211	88655	89099	89543	90000	90445	90889	91333
400								87216	87419	87875	88334	88779	89223	89668	90127	90571	91016	91461
600								87338	87541	88000	88458	88903	89348	89793	90253	90698	91143	91588
800								87459	87662	88120	88581	89027	89472	89918	90378	90824	91270	91716
144000								87581	87784	88240	88704	89150	89597	90043	90504	90950	91397	91843
200								87702	87905	88362	88827	89274	89721	90168	90630	91077	91524	91971
400								87824	88027	88484	88950	89398	89845	90293	90755	91203	91651	92098
600								87946	88149	88606	89074	89522	89970	90418	90881	91329	91778	92226
800								88067	88270	88728	89197	89646	90095	90543	91007	91456	91905	92353
145000								88189	88392	88850	89320	89770</						

## CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8%	9%	10%	11%	12%	13%	14%	15%	16%	18%	20%	22%	24%	26%	28%	30%	32%	34%
	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC	MAC
	(397.3)	(398.8)	(400.4)	(401.9)	(403.5)	(405.1)	(406.6)	(408.2)	(409.7)	(412.9)	(416.0)	(419.1)	(422.2)	(425.3)	(428.5)	(431.6)	(434.7)	(437.8)
151000									92065	92548	93016	93484	93952	94420	94888	95356	95840	96308
200									92167	92650	93118	93586	94054	94522	94990	95458	95926	96395
400									92309	92792	93260	93728	94201	94670	95155	95624	96094	96563
600									92431	92918	93388	93856	94326	94795	95281	95751	96221	96690
800									92552	93038	93503	93979	94450	94921	95406	95877	96347	96818
152000									92874	93361	93832	94303	94774	95246	95717	96188	96659	97130
200									92796	93283	93755	94227	94699	95171	95658	96130	96601	97073
400									92918	93406	93878	94351	94823	95296	95768	96256	96726	97201
600									93040	93529	94002	94475	94948	95421	95893	96382	96855	97326
800									93162	93651	94125	94598	95072	95546	96035	96508	96982	97456
153000									93284	93774	94248	94722	95197	95671	96146	96635	97109	97583
200									93406	93896	94371	94845	95321	95796	96266	96761	97235	97711
400									93528	94019	94494	94970	95445	95921	96412	96887	97367	97839
600									93650	94141	94616	95094	95570	96046	96538	97014	97491	97966
800									93772	94264	94741	95218	95694	96171	96663	97140	97617	98094
154000									93894	94387	94860	95334	95809	96284	96759	97236	97714	98191
200									94016	94509	94982	95455	95933	96411	96895	97373	97871	98349
400									94138	94632	95105	95578	96056	96546	97040	97519	97998	98476
600									94260	94754	95228	95703	96182	96671	97166	97645	98125	98604
800									94382	94877	95352	95827	96307	96786	97292	97772	98252	98731
155000									94504	95000	95480	95961	96441	96922	97418	97968	98479	98959
200									94626	95122	95603	96084	96565	97047	97543	98024	98505	98987
400									94748	95245	95726	96208	96690	97172	97669	98151	98632	99114
600									94870	95367	95847	96328	96809	97291	97795	98277	98759	99242
800									94992	95490	95971	96456	96933	97422	97920	98403	98886	99369
156000									95114	95612	96096	96580	97063	97547	98048	98530	99013	99497
200									95236	95735	96219	96703	97188	97672	98172	98656	99140	99624
400									95358	95857	96342	96827	97312	97797	98297	98782	99267	99752
600									95480	95980	96460	96945	97431	97912	98423	98909	99394	99879
800									95602	96103	96584	97075	97561	98047	98549	99035	99521	100007
157000									95723	96225	96712	97199	97685	98172	98675	99161	99648	100135
200									95845	96348	96835	97323	97810	98297	98800	99288	99775	100262
400									95967	96470	96955	97446	97934	98422	98926	99414	99902	100390
600									96089	96593	97082	97570	98059	98547	99052	99540	100029	100517
800									96211	96716	97205	97694	98183	98672	99177	99666	100156	100646
158000									96333	96838	97328	97818	98308	98797	99303	99793	100283	100772
200									96455	96961	97451	97942	98432	98922	99429	99919	100410	100900
400									96576	97083	97574	98065	98556	99046	99554	100045	100536	101028
600									96698	97206	97696	98189	98681	99173	99680	100172	100663	101155
800									96820	97329	97821	98313	98805	99298	99808	100298	100790	101283
159000									96942	97451	97944	98437	98930	99423	99932	100424	100917	101410
200									97064	97574	98067	98561	99054	99548	100057	100551	101044	101538
400									97186	97697	98190	98685	99179	99673	100183	100677	101171	101665
600									97308	97819	98314	98808	99303	99798	100309	100803	101298	101793
800									97430	97941	98437	98932	99427	99923	100434	100930	101425	101920
160000									97552	98064	98569	99076	99582	100086	100560	101056	101552	102048
200									97674	98187	98692	99198	99705	100213	100686	101182	101679	102176
400									97796	98309	98816	99323	99831	100341	100811	101302	101793	102284
600									97918	98432	98940	99447	99955	100423	100937	101435	101933	102431
800									98040	98554	99063	99571	100055	100548	101063	101561	102050	102558
161000									98162	98677	99187	99697	100207	100714	101263	101789	102317	102866
200									98284	98799	99309	99819	100329	100836	101386	101914	102444	102993
400									98406	98921	99431	99941	100448	100953	101460	101964	102471	102991
600									98528	99043	99553	100063	100570	101078	101586	102092	102608	103168
800									98650	99165	99675	100185	100692	101201	101709	102219	102734	103296
162000									98772	99287	99797	100307	100816	101325	101834	102344	102854	103364
200									98894	99409	99919	100429	100938	101447	101956	102466	102976	103486
400									99016	99531	100041	100552	101061	101570	102080	102590	103100	103610
600									99138	99653	100163	100674	101184	101694	102204	102714	103224	103734
800									99260	99775	100285	100796	101306	101816	102326	102836	103346	103856
163000									99382	99897	100407	100917	101427	101937	102447	102957	103467	103977
200									99504	100015	100525	101035	101545	102055	102565	103075	103585	104095
400									99626	100137	100647	101157	101667	102177	102687	103197	103707	104217
600									99748	100259	100769	101279	101789	102299	102809	103319	103829	104339
800									99870	100381	100891	101401	101911	102421	102931	103441	103951	104461
164000									99992	100503	101013	101523	102033	102543	103053	103563	104073	104583
200									100114	100625	101135	101645	102155	102665	103175	103685	104195	104705
400									100236	100747								

## CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8 %	9 %	10 %	11 %	12 %	13 %	14 %	15 %	16 %	18 %	20 %	22 %	24 %	26 %	28 %	30 %	32 %	34 %
	MAC (397.3)	MAC (398.8)	MAC (400.4)	MAC (401.9)	MAC (403.5)	MAC (405.1)	MAC (406.6)	MAC (408.2)	MAC (409.7)	MAC (412.9)	MAC (416.0)	MAC (419.1)	MAC (422.2)	MAC (423.3)	MAC (428.3)	MAC (431.6)	MAC (434.7)	MAC (437.8)
170000										104193	104720	105247	105774	106301	106828	107355	107899	108426
200										104316	104843	105371	105898	106426	106954	107498	108026	108554
400										104438	104966	105495	106023	106551	107096	107625	108153	108681
600										104561	105090	105618	106147	106676	107222	107751	108280	108809
800										104683	105213	105742	106272	106801	107348	107877	108407	108936
171000										104806	105336	105866	106396	106926	107474	108004	108534	109064
200										104928	105459	105990	106521	107051	107599	108130	108661	109191
400										105051	105582	106114	106645	107176	107725	108256	108786	109319
600										105174	105706	106238	106770	107301	107851	108383	108915	109446
800										105296	105829	106361	106894	107427	107976	108509	109041	109574
172000										105419	105952	106485	107018	107552	108102	108635	109168	109702
200										105541	106075	106609	107143	107677	108228	108762	109295	109829
400										105664	106198	106733	107267	107802	108353	108886	109422	109957
600										105787	106322	106857	107392	107927	108479	109014	109549	110084
800										105909	106445	106980	107516	108052	108605	109140	109676	110212
173000										106032	106568	107104	107641	108177	108731	109267	109803	110339
200										106154	106691	107228	107765	108302	108856	109393	109916	110467
400										106277	106814	107352	107889	108427	108982	109519	110057	110595
600										106399	106938	107476	108014	108552	109108	109646	110184	110722
800										106522	107061	107600	108138	108677	109233	109772	110311	110850
174000										106645	107184	107723	108263	108802	109359	109898	110438	110977
200										106767	107307	107847	108387	108927	109465	110025	110565	111105
400										106890	107430	107971	108512	109052	109610	110151	110692	111232
600										107012	107554	108095	108636	109177	109736	110277	110819	111360
800										107135	107677	108219	108761	109302	109862	110404	110946	111487
175000										107256	107800	108343	108885	109426	109966	110507	111073	111615
200										107380	107923	108466	109009	109553	110113	110656	111199	111743
400										107503	108046	108590	109134	109678	110239	110763	111326	111870
600										107625	108170	108714	109258	109803	110365	110909	111453	111998
800										107746	108293	108838	109383	109928	110490	111035	111580	112125
176000										107870	108418	108962	109507	110053	110616	111182	111707	112253
200										107993	108539	109085	109632	110178	110742	111288	111834	112380
400										108116	108662	109209	109756	110303	110867	111414	111961	112508
600										108236	108786	109333	109881	110428	110993	111541	112088	112635
800										108361	108909	109457	110005	110553	111119	111667	112215	112763
177000										108483	109032	109581	110129	110676	111245	111793	112342	112891
200										108606	109155	109705	110254	110803	111370	111920	112469	113018
400										108728	109276	109826	110376	110925	111496	112046	112595	113146
600										108851	109402	109952	110503	111053	111622	112172	112723	113273
800										108974	109525	110076	110627	111178	111747	112298	112850	113401
178000										109096	109648	110200	110752	111303	111873	112425	112977	113528
200										109219	109771	110324	110876	111427	111999	112551	113104	113656
400										109341	109894	110447	111000	111551	112124	112677	113230	113784
600										109464	110016	110571	111125	111679	112250	112804	113357	113911
800										109587	110141	110695	111249	111804	112376	112930	113484	114039
179000										109709	110264	110819	111374	111929	112502	113056	113611	114166
200										109832	110387	110943	111498	112054	112627	113163	113738	114294
400										109954	110510	111067	111623	112179	112753	113309	113865	114421
600										110077	110634	111190	111747	112304	112879	113435	113992	114549
800										110199	110757	111314	111872	112429	113004	113562	114119	114676
180000										110322	110880	111438	111996	112554	113130	113688	114246	114804
200										110445	111003	111562	112120	112679	113256	113814	114373	114932
400										110567	111126	111686	112245	112804	113361	113919	114479	115039
600										110690	111250	111809	112369	112927	113486	114046	114607	115167
800										110812	111373	111933	112494	113054	113633	114193	114754	115314
181000										110935	111496	112057	112618	113179	113759	114320	114881	115442
200										111057	111619	112181	112743	113304	113884	114446	115008	115569
400										111180	111742	112305	112867	113429	114010	114572	115135	115697
600										111303	111866	112429	112992	113554	114136	114699	115262	115824
800										111425	111989	112552	113116	113680	114261	114825	115386	115952
182000										111548	112112	112676	113240	113805	114367	114951	115515	116080
200										111670	112235	112800	113365	113930	114513	115078	115642	116207
400										111793	112358	112924	113489	114055	114638	115204	115769	116335
600										111916	112482	113048	113614	114180	114764	115330	115896	116462
800										112038	112605	113171	113736	114302	114869	115436	116003	116569
183000										112161	112728	113295	113863	114430	115016	115583	116150	116717
200										112283	112851	113419	113987	114555	115141	115709	116277	116845
400										112406	112974	113543	1141					



## CENTER OF GRAVITY TABLE

GROSS WEIGHT POUNDS	MOMENT/1000																	
	8 % MAC (597.3)	9 % MAC (598.8)	10 % MAC (600.4)	11 % MAC (601.9)	12 % MAC (603.5)	13 % MAC (605.1)	14 % MAC (606.6)	15 % MAC (608.2)	16 % MAC (609.7)	18 % MAC (612.9)	20 % MAC (616.0)	22 % MAC (619.1)	24 % MAC (622.2)	26 % MAC (625.3)	28 % MAC (628.3)	30 % MAC (631.6)	32 % MAC (634.7)	34 % MAC (637.8)
189000											116424	117010	117596	118182	118787	119372	119958	120544
200											116547	117134	117720	118307	118912	119499	120085	120672
400											116670	117258	117845	118432	119038	119625	120212	120799
600											116794	117381	117969	118557	119164	119751	120339	120927
800											116917	117505	118094	118682	119283	119873	120466	121054
190000											117040	117629	118218	118807	119415	120004	120593	121182
200											117163	117753	118342	118932	119541	120130	120720	121310
400											117286	117877	118467	119057	119666	120257	120847	121437
600											117410	118000	118591	119182	119792	120383	120974	121565
800											117533	118124	118716	119307	119918	120509	121101	121692
191000											117656	118248	118840	119432	120044	120636	121228	121820
200											117779	118372	118965	119557	120169	120762	121355	121947
400											117902	118496	119089	119682	120295	120888	121482	122075
600											118026	118620	119214	119807	120421	121015	121609	122202
800											118149	118743	119338	119933	120546	121141	121735	122330
192000											118272	118867	119462	120058	120672	121267	121862	122458
200											118395	118991	119587	120184	120798	121394	121983	122585
400											118518	119115	119711	120308	120923	121520	122116	122713
600											118642	119239	119835	120433	121043	121646	122243	122840
800											118765	119362	119960	120558	121175	121772	122370	122968
193000											118888	119486	120085	120683	121301	121939	122497	123095
200											119011	119610	120209	120808	121426	122025	122624	123223
400											119134	119734	120333	120933	121552	122151	122751	123351
600											119256	119858	120458	121058	121676	122276	122876	123478
800											119381	119982	120582	121183	121803	122404	123005	123606
194000											119504	120105	120707	121308	121939	122530	123132	123733
200											119627	120229	120831	121433	122055	122657	123259	123861
400											119750	120353	120956	121558	122180	122783	123386	123988
600											119874	120477	121080	121683	122306	122909	123513	124116
800											119997	120601	121205	121808	122432	123036	123640	124243
195000											120120	120725	121329	121934	122558	123162	123767	124371
200											120248	120848	121453	122059	122683	123286	123889	124493
400											120372	120972	121574	122184	122809	123415	124020	124626
600											120496	121096	121696	122309	122935	123541	124147	124754
800											120620	121220	121822	122434	123060	123667	124274	124881
196000											120744	121344	121945	122549	123186	123794	124401	125009
200											120867	121467	122068	122674	123312	123920	124528	125136
400											120991	121591	122192	122800	123437	124065	124695	125324
600											121115	121715	122316	122924	123563	124173	124782	125391
800											121239	121839	122440	123049	123688	124299	124909	125519
197000											121363	121963	122564	123165	123815	124425	125035	125647
200											121487	122087	122688	123290	123940	124552	125163	125774
400											121611	122211	122812	123414	124065	124678	125290	125902
600											121735	122335	122936	123538	124190	124804	125417	126029
800											121859	122459	123060	123662	124314	124930	125544	126157
198000											121983	122583	123184	123786	124448	125067	125685	126304
200											122107	122707	123308	123910	124572	125191	125810	126429
400											122231	122831	123432	124034	124696	125315	125934	126553
600											122355	122955	123556	124158	124820	125439	126058	126677
800											122479	123079	123680	124282	124944	125562	126181	126799
199000											122603	123203	123804	124406	125068	125687	126305	126924
200											122727	123327	123928	124530	125192	125811	126430	127049
400											122851	123451	124052	124654	125316	125935	126554	127173
600											122975	123575	124176	124778	125440	126059	126678	127297
800											123100	123699	124300	124902	125564	126183	126802	127421
200000											123224	123824	124425	125027	125689	126308	126927	127546
200											123348	123948	124549	125151	125813	126432	127051	127670
400											123472	124072	124673	125275	125937	126556	127175	127794
600											123596	124196	124797	125399	126061	126680	127299	127918
800											123720	124320	124921	125523	126185	126804	127423	128042
201000											123844	124444	125045	125647	126309	126928	127547	128166
200											123968	124568	125169	125771	126433	127052	127671	128290
400											124092	124692	125293	125895	126557	127176	127795	128414
600											124216	124816	125417	126019	126681	127300	127919	128538
800											124340	124940	125541	126143	126805	127424	128043	128662
202000											124464	125064	125665	126267	126929	127548	128167	128786
200											124588	125188	125789	126391	127053	127672	128291	128910
400											124712	125312	125913	126515	127177	127796	128415	129034
600											124836	125436	126037	126639	127301	127920	128539	129158
800											124960	125560	126161	126763	127425	128044	128663	129282
203000											125084	125684	126285	126887	127549	128168	128787	129406
200				</														

# CENTER OF GRAVITY TABLE

Chart E  
Sheet 25 of 26  
Model RB-47E  
Chart Date - See Sheet 1

GROSS WEIGHT POUNDS	MOMENT/1000																		
	8 %	9 %	10 %	11 %	12 %	13 %	14 %	15 %	16 %	18 %	20 %	22 %	24 %	26 %	28 %	30 %	32 %	34 %	
	MAC (897.3)	MAC (998.8)	MAC (1000.4)	MAC (1001.9)	MAC (1003.5)	MAC (1005.1)	MAC (1006.6)	MAC (1008.2)	MAC (1009.7)	MAC (1012.9)	MAC (1016.0)	MAC (1019.1)	MAC (1022.2)	MAC (1023.2)	MAC (1028.3)	MAC (1031.6)	MAC (1034.7)	MAC (1037.8)	
208000														129418	130062	130728	131373	132018	132662
200														129542	130187	130854	131499	132145	132790
400															130313	130979	131625	132271	132918
600															130436	131105	131752	132398	133045
800															130563	131231	131876	132525	133173
209000															130688	131357	132004	132652	133300
200															130813	131482	132131	132779	133428
400															130938	131608	132257	132906	133555
600															131063	131734	132383	133033	133683
800															131188	131859	132510	133160	133810
210000															131313	131985	132636	133287	133938
200															131438	132111	132762	133414	134066
400															131563	132236	132889	133541	134193
600															131688	132362	133015	133666	134321
800															131813	132488	133141	133795	134448
211000															131936	132614	133268	133922	134576
200															132063	132739	133394	134049	134703
400															132188	132865	133520	134176	134831
600															132313	132991	133647	134303	134958
800															132439	133116	133773	134429	135086
212000															132564	133242	133899	134556	135214
200															132689	133368	134028	134683	135341
400															132814	133493	134152	134810	135469
600															132939	133619	134276	134937	135596
800															133064	133745	134404	135064	135724
213000															133189	133871	134531	135191	135851
200															133314	133996	134657	135316	135979
400															133439	134122	134783	135445	136107
600															133564	134248	134910	135572	136234
800															133689	134373	135036	135699	136362
214000															133814	134499	135162	135826	136489
200															133939	134625	135289	135953	136617
400															134064	134750	135415	136080	136744
600																134189	134876	135541	136207
800																134314	135002	135666	136334
215000																134439	135128	135794	136461
200																134564	135253	135920	136587
400																134689	135379	136047	136714
600																134814	135505	136173	136841
800																134939	135630	136299	136968
216000																	135064	135756	136426
200																	135189	135882	136552
400																	135314	136007	136678
600																	135439	136133	136805
800																	135564	136259	136931
217000																		135689	136382
200																		135814	136507
400																		135939	136633
600																		136064	136757
800																		136189	136882
218000																			136307
200																		136432	137125
400																		136557	137250
600																		136682	137375
800																		136807	137500
219000																			136925
200																		137050	137743
400																		137175	137868
600																		137300	137993
800																		137425	138116
220000																			137543
200																		137668	138361
400																		137793	138486
600																		137918	138611
800																		138043	138736
221000																			138161
200																		138286	138979
400																		138411	139104
600																		138536	139229
800																		138661	139354
222000																			138779
200																		138904	139597
400																		139029	139722
600																		139154	139847
800																		139279	140000
223000																			139397
200																		139522	140225
400																		139647	140350
600																		139772	140475
800																		139897	140600
224000																			139999
200																		140124	140817
400																		140249	140942
600																		140374	141067
800																		140499	141192
225000																			140600
200																		140725	141317
400																		140850	141442
600																		140975	141567
800																		141099	141692
226000																			141200
200																		141325	141817
400																		141450	141942
600																		141575	142067
800																		141699	142192
227000																			141800
200																		141925	142317
400																		142050	142442
600																		142175	142567
800																		142299	142692
228000																			142400
200																		142525	142817
400																		142650	142942
600																		142775	143067
800																		142899	143192
229000																			143000
200																		143125	143317
400																		143250	143442
600																		143375	

Moment Values listed in these columns should be compared with loading computations on Form "F" based on wheels down condition.

Loadings based on wheels down condition which fall within the limiting moments in these columns will be satisfactory when the Landing Gear is retracted.

See graph on Sheet 17 for airplanes complete Center of Gravity capabilities.

GROSS WEIGHT LIMIT - LANDING . . . . . POUNDS \*

GROSS WEIGHT LIMIT - TAKEOFF (Taxi Condition Including  
ATO Charge and Water Injection Fluid) . . . . . POUNDS \*

GROSS WEIGHT LIMIT - FLIGHT (ATO Charge and Water Injection Fluid Expended)

WITHOUT EXTERNAL TANKS . . . . . POUNDS \*

WITH EXTERNAL TANKS . . . . . POUNDS \*

\* Service Activities shall insert, or substitute, current figures from latest applicable technical order covering operating restrictions.



## MISCELLANEOUS DATA

THE FOLLOWING ITEMS ARE INCLUDED IN BASIC WEIGHT OF THE AIRPLANE AND ARE LISTED ON CHART "A". THEIR PRESENCE IN THE AIRPLANE SHOULD BE ASCERTAINED PRIOR TO WEIGHING.

HYDRAULIC FLUID		
ITEM	WEIGHT	MOMENT/1000
MAIN HYDRAULIC SYSTEM (20.8 GAL @ 7.0 LB/GAL)	146	73
AILERON AND FLAPERON ( 7.4 GAL @ 7.0 LB/GAL)	52	44
ELEVATOR AND RUDDER ( 2.4 GAL @ 7.0 LB/GAL)	17	20

UNUSABLE FUEL				
UNUSABLE FUEL MUST BE INCLUDED IN BASIC WEIGHT SINCE GAGE READINGS INDICATE FUEL QUANTITIES ABOVE THIS AMOUNT. THEREFORE, AN ADJUSTMENT FOR THE DIFFERENCE BETWEEN TRAPPED FUEL I* OR II** AND UNUSABLE FUEL MUST BE MADE IN THE BASIC BUILD-UP FORM.				
TOTAL UNUSABLE FUEL			WEIGHT	MOMENT/1000
MIL-F-5616	6.8 LB/GAL	(82.1 GAL)	558	317
MIL-F-5624	6.5 LB/GAL	(82.1 GAL)	534	304
MIL-F-5572	6.0 LB/GAL	(82.1 GAL)	493	280
* TRAPPED FUEL I-AIRPLANE IN TAXI ATTITUDE AND DRAINED AT DEFUELING VALVE.				
MIL-F-5616	6.8 LB/GAL	(71.0 GAL)	483	296
MIL-F-5624	6.5 LB/GAL	(71.0 GAL)	462	283
MIL-F-5572	6.0 LB/GAL	(71.0 GAL)	426	261
** TRAPPED FUEL II-AIRPLANE IN TAXI ATTITUDE AND DRAINED AT DEFUELING VALVE AND TANK SUMPS				
MIL-F-5616	6.8 LB/GAL	(59.0 GAL)	401	240
MIL-F-5624	6.5 LB/GAL	(59.0 GAL)	384	230
MIL-F-5572	6.0 LB/GAL	(59.0 GAL)	354	212

## MISCELLANEOUS DIMENSIONS

WING SPAN (PROJECTED) .....	116 FT
WING SWEEP BACK (LEADING EDGE) .....	36° 37'
HORIZONTAL TAIL SPAN .....	33 FT
AIRPLANE HEIGHT (MAXIMUM) .....	28 FT
AIRPLANE LENGTH .....	109 FT 10 IN

WEIGHT AND BALANCE CLEARANCE FORM F - TACTICAL - (USE REVERSE FOR TRANSPORT AND CARGO MISSIONS)						FOR USE IN AN 01-18-40	
DATE <b>1 JUNE 1953</b>		AIRPLANE <b>RB-47E</b>		FROM <b>SEATTLE</b>			
MISSION <b>PHOTO</b>		SERIAL NUMBER <b>00-000</b>		TO <b>LOCAL</b>			
REMARKS		REF	ITEM	WEIGHT	INDEX OR MOM/1000		
FWD MAIN - 19,047 lbs		1	BASIC AIRPLANE (From Chart C)	8450.0	5073.3		
CTR. MAIN - 18,467 lbs		2	OIL (56.4 Gal.)	42.3	27.1		
AFT MAIN - 22,263 lbs		3	DISTRIBUTION OF LOAD				
FWD AUX - 6,533 lbs		COMP	NO.	WEIGHT	CARGO AND MISC		
Bomb Bay Aft - 15,990 lbs		A	1	230	23.0	2.5	
Bomb Bay Fwd - 7,799 lbs		B	2	460	46.0	10.2	
		E	18 ATQ. BOTTLES (EMPTY)	21.24	169.0		
COMPUTER PLATE NUMBER (if used)							
Pertinent instructions to the pilot for shifting load and crew during take off and landing should be noted above.							
CORRECTIONS (Ref. 11)							
COMPT	ITEM	CHANGES	WEIGHT	INDEX OR MOM/1000			
			4	COMP	POUNDS	CALIBER	
				I	700	20MM.	4.34 5.36
OPERATING WEIGHT				881.71	5335.7		
(10) PHOTO FLASH				150.0	70.2		
(200) FLASH CARTRIDGES				18.0	19.1		
EXTERNAL							
WEIGHTS							
TOTAL IN (10,209 Gal.)				6636.0	4249.9		
Bomb Bay (3,660 Gal.)				2378.9	1463.1		
EXTERNAL (Gal.)							
A WATER INJ. FLUID 440 Gal.				352.4	178.3 **		
B JATO OR NATO CHARGE				147.6	117.6 **		
10 TAKE OFF CONDITION (Uncorrected)				1850.00	1143.39		
11 CONNECTIONS (if required)							
12 TAKE OFF CONDITION (Corrected)				1850.00	1143.39 **		
13 TAKE OFF C.G. IN % M.A.C.				21.3%			
14 JATO OR NATO CHARGE				147.6	117.6		
MAGS & CARTRIDGES				168.0	89.3		
AMMUNITION				43.4	53.6		
FUEL				8564.9	5413.7		
WATER INJ. FLUID				352.4	178.3		
15 ESTIMATED LANDING CONDITION				9223.7	5581.4		
16 ESTIMATED LANDING C.G. IN % M.A.C.				13%			
LIMITS							
2/ GROSS WT. TAKE OFF (lbs)		2/ GROSS WT. LANDING (lbs)					
**		**					
3/ PERMISSIBLE C.G. TAKE OFF		FROM	TO (% M.A.C.)				
		*					
4/ PERMISSIBLE C.G. LANDING		FROM	TO (% M.A.C.)				
		*					
1/ Enter constant used.							
3/ Enter values from current applicable TO							
3/ Applicable to gross weight (Ref. 12)							
4/ Applicable to gross weight (Ref. 13)							
COMPUTED BY				WEIGHT & BALANCE TECHNICIAN			
PILOT							

# Armed Services Technical Information Agency

# AD

# 47507

NOTICE: WHEN GOVERNMENT OR OTHER DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE U. S. GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

Reproduced by

DOCUMENT SERVICE CENTER

KNOTT BUILDING, DAYTON, 2, OHIO

# UNCLASSIFIED